


AMERICAN UNIVERSITY



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American University Catalog

1997–1998 Edition

effective Fall 1997

Washington, D.C.

Correspondence Directory

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4400 Massachusetts Avenue, NW
Washington, DC 20016

General Information: (202) 885-1000

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Gray Hall fax (202) 885-2429

School of Communication (202) 885-2060
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Kogod College of Business
Administration (202) 885-1900
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School of International Service (202) 885-1600
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School of Public Affairs (202) 885-2940
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Washington College of Law (202) 274-4000
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Development Office (202) 885-5900
Constitution Building, Tenley Campus fax (202) 895-4998
Alumni Relations (202) 885-5960
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Enrollment Services
Admissions Office (202) 885-6000
Hamilton Building fax (202) 885-6014
Financial Aid (202) 885-6100
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Media Relations (202) 885-5950
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International and Special Programs (202) 885-2500
McKinley Building 153 fax (202) 885-2542

Registrar (202) 885-2200
Asbury Building 2nd floor fax (202) 885-1052

Student Accounts (202) 885-3541
Asbury Building 300 fax (202) 885-1139

Student Services (202) 885-3310
Butler Pavilion 401 fax (202) 885-1769

EaglePhone: (202) 274-0310

Course schedules, semester grades and student account information from any touch-tone telephone.

American University on the World Wide Web:
<http://www.american.edu>

Equal Opportunity

American University provides equal opportunity for all qualified persons in its educational programs and activities. The university does not discriminate on the basis of race, color, religion, national origin, sex, age, disability, marital status, personal appearance, sexual orientation, family responsibilities, political affiliation, source of income, or Vietnam-era veteran status. It conforms with all applicable federal and state non-discrimination laws. The policy of equal opportunity applies to every aspect of the operations and activities of the university generally, and includes admissions and employment.

American University Catalog is published by
the Office of the University Registrar
Donald W. Bunis, University Registrar
Mary-Ellen Jones, Assistant University Registrar/Editor

in cooperation with
the University Publications Office
Trudi Rishikof, Director

Limitations on Catalog Provisions

The educational process necessitates change. This publication must be considered informational and not binding on the university.

Each step of the educational process, from admission through graduation, requires appropriate approval by university officials. The university must, therefore, reserve the right to change admission requirements or to refuse to grant credit or a degree if a student does not satisfy the university, in its sole judgment, that he or she has satisfactorily met its requirements.

Academic Calendar 1997–1998

Fall 1997

September 1	Labor Day; no classes, university offices closed
September 2	Fall classes begin
September 15	Last day to add a fall course
October 11	English Competency Examination
October 17	Last day to drop a fall course (mid-term)
November 3	Advanced registration (with billing) for spring 1998 begins
November 25	Regular Tuesday classes suspended; Thursday classes meet
November 26	Regular Wednesday classes suspended; Friday classes meet
November 27–30	Thanksgiving holiday; no classes, university offices closed
December 8	Direct registration (with payment) for spring 1998 begins
December 10	Fall classes end
December 11–12	Study days, no classes
December 13–19	Fall final examinations
December 24–25	Winter holiday; university offices closed
December 31–Jan 1	New Year holiday; university offices closed

Spring 1998

January 19	Martin Luther King, Jr. Day; university offices closed
January 20	Spring classes begin

January 25	Winter Commencement
February 2	Last day to add a spring course
February 7	English Competency Examination
March 13	Last day to drop a spring class (mid-term)
March 14–22	Spring break
March 28	English Competency Examination
April 6	Advance registration for fall 1998 and summer 1998 begins
May 4	Spring classes end
May 5–6	Study days; no classes
May 7–13	Spring final examinations
May 16	Honors Convocation
May 17	Spring Commencement

Summer 1998

May 25	Memorial Day; no classes, university offices closed
May 26	Summer sessions begin
June 13	Three-week session ends
July 2	First six-week session ends
July 3	Independence Day observed; no classes, university offices closed
July 6	Second six-week session begins
July 10	Seven-week session ends
July 31	Ten-week session ends
August 7	Second six-week session ends
August 14	All remaining sessions end

The academic calendar is divided into fall and spring semesters and a summer term consisting of a three-week session, two six-week sessions, a seven-week session, and a ten-week session. The last week of the fall and spring semesters is set aside for final examinations. If no final examination is given, the course will meet for a final class during the scheduled final examination period.

The holidays and vacations usually observed by the university are as follows: Labor Day; Thanksgiving weekend (Thursday, Friday, Saturday); Christmas Eve/Christmas Day and New Year's Eve/New Year's Day (included in the mid-year intersession break); Martin Luther King, Jr. Day; Inauguration Day (every four years); Memorial Day; and Independence Day. Spring break is the week following the spring semester midterm. Classes continue until 10:40 p.m. the evening before a holiday or vacation period.

The *Schedule of Classes* for each semester contains specific dates for the academic year.

University Administration

Benjamin Ladner, *President*
Cornelius M. Kerwin, *Acting Provost*
Donald L. Myers, *Vice President of Finance and Treasurer*
Gail S. Hanson, *Vice President of Student Services*
Thomas Myers, *Vice President of Enrollment Services*
Linda B. Nelson, *Vice President of Development*
Mary E. Kennard, *Vice President and University Counsel*

Ivy E. Broder, *Dean, Academic Affairs*
Louis W. Goodman, *Dean, School of International Service*
Claudio M. Grossman, *Dean, Washington College of Law*
Stevan R. Holmberg, *Acting Dean, Kogod College of
Business Administration*

Cornelius M. Kerwin, *Dean, School of Public Affairs*
Susan R. Kinsey, *Dean, International and Special Programs*
Sanford J. Ungar, *Dean, School of Communication*
Howard M. Wachtel, *Acting Dean, College of Arts and Sciences*

Donald W. Bunis, *University Registrar*
Patricia Wand, *University Librarian*

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Betty Southard Murphy*
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Tarek Omar*
Robert Frank Pence*
John R. Petty
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Herbert Vederman
Paul Martin Wolff

*Alumna/alumnus of American University

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Introduction

- Academic Facilities, Athletics, and On-Campus Services
- University Profile
- Enrollment

American University was chartered by an Act of Congress in 1893 and founded under the auspices of the United Methodist Church. Today it is an independent coeducational university with more than 11,000 students enrolled in undergraduate, master's, doctoral, and professional degree programs. On an 84-acre residential campus in a quiet neighborhood in upper northwest Washington, D.C., the university attracts students from all 50 states, the District of Columbia, Puerto Rico and the territories, and more than 150 foreign countries.

American University offers a wide range of undergraduate and graduate programs through its six major divisions: College of Arts and Sciences; School of Communication; School of Public Affairs; School of International Service; Kogod College of Business Administration; and Washington College of Law.

The distinguished faculty of American University includes renowned experts and scholars of national and international reputation in public affairs, law, history, economics, business, international relations, education, science and the arts.

To its full-time faculty of 549, the university adds over four hundred adjunct faculty members drawn from Washington's professional community, including policy makers, diplomats, journalists, artists, writers, scientists and business leaders

The resources of a capital city are unlike any other in the world. Next to government, education is the largest industry in the District of Columbia. Washington has become an important business and financial center, with more associations and trade organizations than New York City. Some 140 foreign embassies and chanceries and the headquarters of many international organizations are located in the city.

But most important, Washington is a city of learning resources in every discipline, from the arts to the sciences to public affairs. The Smithsonian Institution, the John F. Kennedy Center for the Performing Arts, the National Institutes of Health, the National Library of Medicine, the Library of Congress, the World Bank, the National Archives, the Brookings Institution, and the Chamber of Commerce of the U.S.A. are all located in the Washington, D.C. area.

The libraries, museums, and art galleries of Washington contain unsurpassed collections. These resources become sites of research, field trips, internships, cooperative education placements, and part-time jobs. Because of these resources, American University students can put their education to work as they could nowhere else in the country.

University Campus

Massachusetts Avenue runs from the bustle of downtown Washington, through Embassy Row, by the Washington Cathedral, through wooded Glover-Archbold Park, to Ward Circle. Here on the hill where Massachusetts and Nebraska Avenues meet sits the main campus of the American University. In a beautiful residential area, the campus is a tranquil setting for study.

Apart from, yet a part of the city, American University is a short distance from Washington's centers of government, business, research, commerce and art. The university is served by major city bus routes and a campus shuttle to a nearby subway stop.

The 37 buildings on the campus include the university library, administrative and academic buildings, residence halls, an interdenominational religious center, and a sports and convocation center. Facilities include a 24-hour computing center, radio and TV studios, science laboratories, art studios, recital halls, and a theatre. The Washington College of Law is located a half mile from the campus on Massachusetts Avenue. The satellite Tenley Campus, located a mile from the university's main site, is the location of the Washington Semester program.

2 Introduction

Art Facilities

The Art Department is housed in the Watkins Building, with additional classrooms and studio space in the Cassell and McKinley Buildings. There are classrooms with special equipment to handle drawing, painting, printmaking, etching, sculpture, design, and ceramics classes as well as art history classes. Individual studios are provided for all M.F.A. students, and semi-private workspaces are provided for undergraduate studio art majors. The department also maintains the Watkins Gallery, a long-established gallery with changing exhibitions, including the Watkins Collection and works by faculty, students, and other artists.

Dance, Music, and Theatre Facilities

The Kreeger Building, housing the Department of Performing Arts, has a chamber-music recital hall seating 130, a large rehearsal space, and 25 practice rooms. It also has facilities for TV tape viewing and record, CD, and tape listening. Available through the university library and music library are over 10,000 volumes of music scores and books and over 10,000 disc recordings. The building also contains a large collection of choral, orchestral, jazz, and symphonic scores.

The Experimental Theatre, where plays, musicals, and dance concerts are performed, serves as the mainstage facility for the Department of Performing Arts. Downstairs in the same building are the production office and the scene shop. The costume office, shop, and storage facilities are located to the rear of Asbury Building, where costumes are designed and created for all department productions.

Cassell Center is home to most dance classes and a dance office, and is equipped with mirrors, barres, and dance floors. Aside from the dance studio, there are studios and rehearsal facilities for visual artists, and a small studio space for acting classes and informal performances. Dance classes are also held in Butler Learning Center in room 104, which is equipped with a dance floor, mirrors, and barres.

Language Resource Center

The language resource center in the Asbury Building can serve up to 90 students simultaneously using audio, video, slides, and computer-assisted instruction. This facility of the Department of Language and Foreign Studies is open to the entire university community for instruction and research involving both languages and educational media.

The center's varied services include self-paced instructional programs in Chinese, English, French, German, Hebrew, Italian, Japanese, Russian, and Spanish, free tutoring for students enrolled in foreign language courses, and state-of-the-art computerized teaching labs providing interactive learning.

Media Center

The Media Center operates the Mark Wechsler Theater, a 100-seat screening room that affords an intimate setting for classic and contemporary cinema. The center is also a full-scale audio-visual resource facility providing administrative and technical support for the film studies and production courses offered by the Department of Literature and the School of Communication. Housed within the center are a selective film and video collection, reference works, film catalogues, and files of film-related material.

The center frequently sponsors special events such as film festivals, guest filmmakers, seminars, premier screenings, and the annual Student Visual Media Festival, as well as facilitating events sponsored by embassies, film societies, and nonprofit organizations and associations. The projection facilities are fully equipped for 16- and 35mm film, as well as large screen video in five formats, laserdisc, and computer multimedia projection. The Media Center is located in room 319 of the Mary Graydon Center.

Science Laboratories

The Department of Chemistry is equipped with standard chemical instrumentation, including spectrometers and chromatographic equipment. Laboratory facilities in the Beechly Building include modern teaching and research laboratories as well as a computer room, a dark room, a controlled temperature room, instrument rooms, and an animal facility. Specialized laboratories have been established for research in biochemistry, polymer chemistry, and carbohydrate chemistry, and for work requiring an inert atmosphere. Graduate and undergraduate students are involved in a variety of research projects using the facilities of the department or through cooperative agreements with many governmental laboratories.

Research facilities of the Department of Physics, housed in the McKinley Building, include general and advanced laboratories, a DEC workstation, electronics and audio technology equipment, a recording studio, an electronic-music studio, a machine shop, and Mossbauer, critical phenomena, kinetic molecular, and laser laboratories. Nuclear research is carried out under a cooperative arrangement with the Stanford Linear Accelerator Center.

The undergraduate teaching laboratories of the Department of Biology and laboratories used for upper-level courses, graduate courses, and research are well equipped and continually upgraded. Students have the opportunity to gain experience with a wide variety of techniques including scientific methodology and experimental design, nucleic-acid isolation, protein and nucleic-acid design, electrophoresis, bacteria and primary cell structure, electrophysiology, immunohistochemistry, fluorescence microscopy, histology, aseptic technique, and quantitative genetic analysis. The facilities in the Department of Biology and cooperative agreements with various government laboratories make possible opportunities for research in environmental, ecological, and biomedical sciences.

Computer Laboratories

The Office of Information Technology serves the research and instructional needs of faculty and students with personal computer and mainframe computing resources through a 24-hour computing center and 11 other computer labs around campus. There is no charge to registered students for academic use of computing resources.

The campus mainframe computer is accessible through EagleNet, the university's campus-wide network and via modem. Network-based software applications for personal computers and workstations are provided on EagleNet, which also serves as the university's gateway to the Internet. EagleNet uses fiber-optic cables to interconnect the entire campus, including residence hall rooms, faculty and staff offices, and the library's on-line catalog, ALADIN.

Specialized laboratories are available for students of business, law, psychology, writing, computer science, foreign languages, communication and social science research. Labs are staffed with full-time professionals, graduate fellows and student assistants who provide support for a broad range of software applications.

Throughout the year a variety of training classes are offered to help members of the academic community use computing resources.

A computing hotline offers troubleshooting assistance for standard software packages and hardware and communications support via telephone and walk-in service.

University Library

The Jack L. and Dorothy G. Bender Library and Learning Resources Center offers students over 653,500 volumes, 899,000 microforms, 33,000 media titles, and 3,500 periodical subscriptions. In addition, musical scores and recordings are available in the Music Library in Kreeger Building. The reference collection in Bender Library includes atlases, encyclopedias, directories, guides, and bibliographies and periodical indexes in both print and CD-ROM formats. On-line databases include LEXIS/NEXIS, OCLC, BRS, and Dialog.

Reference librarians assist in finding information, conduct online bibliographic searches, and offer instruction for library use to students. Bender Library offers quiet study spaces as well as group study rooms and study space with a separate entrance that is open 24 hours a day. Services for students with disabilities include TDD telephone and state-of-the-art workstations with speech output, scanning devices and magnification software.

Special collections include the American University Archives, rare books, and manuscripts, such as the Artemus Martin Collection of materials on mathematics and the Spinks Collection of Japanese materials.

American University is a member of the Washington Research Library Consortium (WRLC), all of whose holdings are listed in ALADIN, the online catalog. American University students and faculty may borrow material from the six other WRLC libraries.

WAMU-FM Radio

WAMU 88.5 FM is a 24-hour, 50,000 watt public radio station, licensed to American University since 1961. It ranks among the top five public radio stations in the country. WAMU serves more than 450,000 listeners in Virginia, Maryland, and the District of Columbia with news, talk programming, and traditional American music. WAMU is a not-for-profit radio station. Its support comes from American University, local businesses, the Corporation for Public Broadcasting, and over 30,000 individual listener subscribers. Although WAMU-FM is professionally staffed, some part-time employment opportunities are available to students in the business and development offices.

Athletics and Recreation

American University's Sports Complex houses Bender Arena, Reeves Aquatic Center, Athletics and Recreation Department offices, the Health and Fitness Department, and various conference and fitness facilities.

The Sports Complex also serves as home to the American University Eagles athletic teams. The university fields eight NCAA Division I women's teams (soccer, volleyball, basketball, swimming and diving, field hockey, lacrosse, cross country, and tennis), and seven men's teams (soccer, basketball, swimming and diving, wrestling, golf, cross country, and tennis).

American University students may attend Eagles sports events free of charge by picking up tickets in advance of the game. Students may also obtain visitor tickets at discount rates. For general information, call (202) 885-3000. For up-to-the-minute varsity athletic team scores call the Sports Information Hotline at (202) 885-DUNK (x3865). In addition, the AU athletics homepage is at www.american.edu/athletics/.

Other special functions and major entertainment events occur throughout the year in Bender Arena. Tickets for both on-campus and off-campus events can be purchased at the Ticketmaster outlet located in the lobby. For all ticket information, call (202) 885-FANS (x3267).

Intramural Sports

The Intramural Sports Program is an exciting and fun complement to a student's academic, cultural, and social education. The program offers a wide range of sports including basketball, flag football, soccer, softball, racquetball, golf, swimming, volleyball and tennis. Different leagues are conducted in these sports for men, women, co-recreational groups, and varying skill levels. Involvement in intramurals is a wonderful opportunity for students to make new acquaintances, develop friendships and enjoy the obvious benefits from exercise and physical activity.

An Intramural Sports Program brochure listing all the rules and regulations of the program, as well as deadlines for signing up for various sports, may be obtained from the Intramural Office in the Sports Center lower level, Room G-03, (202) 885-3050.

Recreational Facilities

Racquetball and squash courts, exercise/aerobic rooms, two swimming pools, weight rooms, basketball and volleyball courts, and a jogging track are conveniently located in the American University's Sports Complex. All students with a valid AU ID have privileges in these facilities during normal operating hours. Sports Center hours are 6:00 a.m. to 10:00 p.m., Monday through Friday, and 9:00 a.m. to 8:00 p.m. Saturday and Sunday. Special hours are in effect during events in the building, on school holidays and from mid-May to the end of August. For special closings, call (202) 885-3096. Outdoor facilities include tennis courts, running track and an all-purpose intramural and recreational field.

The Sports Complex also serves as home to the AU Eagles athletic teams. Other special functions and major entertainment events occur throughout the year in Bender Arena. Tickets for both on-campus and off-campus events can be purchased at the Ticketmaster outlet located in the lobby. For all ticket information, call (202) 885-FANS (x3267).

National Center for Health Fitness

The National Center for Health Fitness (NCHF) provides leadership for the nation in the areas of health risk identification and lifestyle improvement. The NCHF offers a full spectrum of health fitness services including the design, implementation, management, and evaluation of worksite health promotion. The NCHF operates two off-campus worksite health promotion centers, which are staffed by the graduate students in the Health Fitness Management Program. This Master of Science program is closely related to the NCHF and is tailored to produce health fitness professionals for business, government, and industry. The state-of-the-art research done by the NCHF in worksite health promotion has resulted in comprehensive empirical and literature databases that serve as resources for researchers in several different disciplines, including behavioral sciences, life sciences, and economics.

On-Campus Services

Banking and Stores

A local bank operates a branch office and two automatic teller machines in the Butler Pavilion Promenade.

The Eagle's Nest carries food, magazines, newspapers, and toiletry items. Other stores and services in the Butler Pavilion include a mailbox service, dry cleaner, pizza restaurant, travel agent, video/CD store, and hair salon.

Campus Store

The campus bookstore, located on the second and third floors of the Butler Pavilion, carries all required textbooks, a large selection of other books, all necessary supplies, and stationery, American University sportswear, and other items.

Child Development Center

American University's Child Development Center, located on campus, provides a stimulating atmosphere for children between 2½ and 5 years old. Children of students, faculty, and staff may be enrolled in a full-day or part-time program. The highly-qualified teachers provide activities based on the socio-emotional, physical, and intellectual development of the child.

In addition, the center offers students from all disciplines a place to observe, create, and test theories that involve children. The center also offers work-study experience to undergraduates interested in children. For more information, call the Child Development Center at (202) 885-3330.

Dining Services

The Terrace dining room, the Tavern, cafeteria, snack bar, carry-out, and food vending machines are located in Mary Graydon Center. There is also a contract dining facility on the Tenley Campus. Various meal plan options are offered on a semester basis.

Mail Service

All university mail delivery is handled by Mail Services. The university maintains a full service United States Post Office contract substation, Eagle Station, located in Letts Hall, lower level. Residence hall mail boxes are furnished to all resident students.

Office of Student Accounts

Following admission to the university, students handle all financial transactions with the university through the Office of Student Accounts, located in Asbury Building, room 300. Student account balances, status of student direct loans, and payment of student accounts by credit card may be accessed from any touch-tone telephone using EaglePhone, (202) 274-0310. For more information, call (202) 885-3541, TDD (202) 885-3544.

Student Health Center

The Student Health Center (SHC), located on the first floor of Nebraska Hall, provides primary medical care, minor emergency care, gynecological care, immunizations, allergy injections and health education services to students. The clinical staff consists of registered nurses and physician assistants, supported and supervised by two internal medicine physicians. The hours of operation for the fall and spring semesters are Monday through Friday 9:00 a.m. to 4:30 p.m., Tuesday and Thursday evenings 5:00 p.m. to 7:00 p.m. Summer hours are 9:00 a.m. to 12:30 p.m. and 1:30 p.m. to 4:00 p.m. Appointments are required for all non-emergency visits. To schedule an appointment, call (202) 885-3380. Evaluation by a screening nurse is available on a walk-in basis.

Transportation and Parking

Parking on university property is by permit or meter only from 8:00 a.m. until 5:00 p.m., Monday through Friday. Vehicles must be registered with the Parking and Traffic Office and must display a valid parking permit. All faculty, staff, and students must

register their vehicles by the end of the first day of classes of the fall term. Vehicles brought to campus during the term must immediately be registered at the Office of Parking and Traffic.

Resident freshmen, sophomores, Washington Semester students, Nebraska Hall residents, Tenley Campus residents, and residents who did not receive a permit through the lottery process are not permitted to park vehicles on campus or in Neighborhood Advisory Committee zones 3D and 3E. Visitors may park in metered parking areas or purchase a permit from the Parking and Traffic Office. Parking at meters is free for visitors with physical disabilities who have tags or state-issued permits allowing them parking priority. Temporary permits are available to persons having temporary disabilities. A doctor's certification may be re-

quired. Parking and traffic regulations are available from the Parking and Traffic Office in the Public Safety Building. For more information, call the Parking and Traffic Office at (202) 885-3110.

The university is accessible by Metrobus and Metrorail. A shuttle service is available to and from the Tenleytown Metro station, Tenley Campus, Glover-Tunlaw Apartments, and Washington College of Law. The service is free with a current university ID or guest pass. Hours of operation are 7:00 a.m. to 12:30 a.m. Monday-Friday and 8:00 a.m. to 1:00 a.m. Saturday and Sunday. For schedule information, call the Shuttle Transit Service in the Public Safety Building at (202) 885-3302.

University Profile

Historical Origins

American University was incorporated by the government of the District of Columbia in 1891 and chartered by Act of Congress in 1893 as a Methodist Church-related institution. The university's first building was completed in 1898; its first class graduated in 1916.

Character

American University is an independent, coeducational university. All 50 states, the District of Columbia, Puerto Rico and the territories, and nearly 140 foreign countries are represented in its student body.

Location

Residential area of upper northwest Washington, D.C.

Academic Divisions

College of Arts and Sciences
Kogod College of Business Administration
School of Communication
School of International Service
School of Public Affairs
Washington College of Law

Academic Programs

52 bachelor's programs
72 master's programs
14 doctoral programs
J.D. and LL.M.

Certificate programs and an associate degree program are also offered.

Special Programs

Career Center: cooperative education, internships, career preparation and career planning services at the undergraduate and graduate levels

Washington Semester Program: undergraduate programs in peace and conflict resolution, American politics (national government, public law), museum studies and the arts, foreign policy, economic policy, justice, journalism, international business and trade, and international environment and development

World Capitals Program: 12 undergraduate semester-abroad programs in South America, Asia, and Western and Eastern Europe (many include internships opportunities)

Continuing Education:

Undergraduate: assessment of experiential learning and adult degree-completion programs

Graduate: professional master's programs on evenings and weekends

Certificate programs and on-site corporate education programs

Consortium of Universities of the Washington Metropolitan Area: students may take courses not offered by their home institutions at any of the other 12 consortium member schools

Calendar

Two semesters, summer sessions

Student/Faculty Ratio (1994-95)

14.7:1

Number of Faculty (Fall 1996)

549 total faculty with 452 in full-time teaching positions (92 percent of the full-time faculty hold a doctoral degree or the highest degree in their field)

Freshman Profile (Fall 1996)

Freshman enrollment: 1,171

Average high school grade point average of 3.17

Combined SAT (recentered) score average: 1183

6 Introduction

Financial Aid

Approximately 60 percent of the students receive some form of financial aid

Student Services

Career Center; Disability Support Services; Intercultural Student Services; Kay Spiritual Life Center; Mediation Services; Multicultural Affairs; New Students Programs; Psychological and Learning Services; Residential Life and Housing Services; Sexual Discrimination, Harassment, and Assault Assistance; Sexual Minority Resource Center; and Student Health Center

Facilities/Physical Plant

The 76-acre main campus and the 8-acre Tenley satellite campus are within one mile of each other. The Washington College of Law is located on Massachusetts Ave., a half mile from the main campus. University facilities include administrative and academic buildings; housing for 3,475; an interdenominational religious center; specialized natural science facilities; a computing center open 24 hours a day, plus 11 computer laboratories around campus; radio and TV studios; recital halls; a small theatre; and a comprehensive, multipurpose sports and convocation center.

University Library

The University Library holdings include 653,000 volumes, 899,000 microforms, 33,000 media titles, 3,500 periodical subscriptions and numerous subject indexes in ALADIN and CD-ROM formats. On-line databases include LEXIS/NEXIS, OCLC, BRS, and Dialog. Library services, collections, and study facilities are located in Bender Library and in the Music Library in the Kreeger Building. Services for students with disabilities include TDD telephone and state-of-the-art workstations with speech output, scanning devices and magnification software.

Access to University Library collections is through ALADIN, the on-line catalog and library system of the Washington Research Library Consortium (WRLC). American University students and faculty may borrow materials from all seven members of WRLC.

Law Library

The Law Library holdings include 213,459 volumes, 1,007,656 microforms; 6,181 serial subscriptions, on-line databases through LEXIS/NEXIS, MEDIS, Westlaw, BRS, Dialog, OCLC, RLIN, Autocite, Vutext, and LEGAL, an on-line catalog providing access to hundreds of other libraries, including other area academic law libraries.

The Law Library is a selective depository for U.S. government publications, some of which are housed in Bender Library, and a full depository for European Union documents. The Law Library also houses the National Equal

Justice Library Collections, the Goodman Collection of rare and semi-rare law books, the Baxter Collection in International Law, and the archives of the former Administrative Conference of the United States.

Residence Halls

Seven residence halls on the main campus accommodate 2,900 students per year. An apartment building housing 125 graduate students is located within a mile of the main campus. Three residence halls on the Tenley Campus provide housing for 450 Washington Semester students.

Cocurricular activities

Students may participate in any of more than 110 clubs and organizations; eight fraternities and ten sororities; and varsity, recreational, and intramural sports

Accreditation

American University is accredited by the Middle States Association of Colleges and Secondary Schools and is recognized by the University Senate of the United Methodist Church. It is a member of the National Continuing Education Association and the Council for Adult and Experiential Learning.

A number of programs are also individually accredited by, or are members of, professional organizations:

- Department of Chemistry: American Chemical Society
- School of Communication: Accrediting Council on Education in Journalism and Mass Communication
- School of Education: National Association of State Directors of Teacher Education and Certification (both elementary and secondary)
- School of International Service: member, Association of Professional Schools of International Affairs
- Kogod College of Business Administration: accredited by the American Assembly of Collegiate Schools of Business (AACSB)
Department of Accounting programs are also accredited by AACSB
- Department of Performing Arts: division of music; member, National Association of Schools of Music
- Department of Psychology: doctoral training program in clinical psychology; American Psychological Association
- School of Public Affairs: institutional member of the National Association of Schools of Public Affairs and Administration; member of the Academy of Criminal Justice Sciences
- Washington College of Law: approved by the American Bar Association and a member of the Association of American Law Schools

1996–1997 Academic Year Enrollment

Full-time undergraduates	5,070
Part-time undergraduates	430
Full-time and part-time graduate students (including Washington College of Law)	4,912
Nondegree students	873
<i>Total</i>	11,285

Degrees Conferred 1995–1996

	<i>Associate</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Ph.D.</i>	<i>J.D.</i>	<i>LL.M.</i>	<i>Total</i>
College of Arts and Sciences	1	319	421	51			792
School of Communication		142	148				290
Kogod College of Business Administration		162	265				427
School of International Service		239	236	2			477
School of Public Affairs		223	194	5			422
Washington College of Law					355	117	472
<i>University Total</i>	1	1,085	1,264	58	355	117	2,880

In 1995-1996, the graduation rate for undergraduate students who entered American University as full-time freshmen in fall 1991 was 67.6 percent.



Undergraduate Study

- Admission Requirements
- University Degree Requirements
- Academic Standards and Regulations
- Fields of Study

Admission

Application for admission to undergraduate degree programs may be made for any fall, spring, or summer term. The applicant is required to submit the application form and a nonrefundable application fee of \$45. Forms may be obtained from the Undergraduate Admissions Office at (202) 885-6000.

Applications and all supporting documents must be on file in the Undergraduate Admissions Office by the following dates:

Freshman

<i>Fall</i> (U.S. and International)	
Early Decision	November 15
General Admission	February 1
<i>Spring</i> (U.S.)	December 1
International	October 1
<i>Summer</i> (U.S.)	April 15
International	March 1

Transfer

<i>Fall</i> (U.S.)	July 1
(February 1 to be considered for financial aid)	
International	May 1
<i>Spring</i> (U.S.)	November 1
International	October 1
<i>Summer</i> (U.S.)	April 1
International	March 1

The applicant is responsible for requesting that official transcripts and test scores be sent directly from the issuing institutions to American University, Undergraduate Admissions Office.

Applications received after the deadline will be considered for the intended program of study as long as class space remains and if it is possible to receive and process the necessary documents in time for registration.

Transfer applicants must request each collegiate institution previously attended to send directly to the Admissions Office an official transcript of all work completed. Attendance at all institutions must be reported *whether or not credit was earned* and whether or not transfer credit is desired. Failure to report all previous academic work will be considered sufficient cause for rejection of an application or for dismissal from the university.

Early Admission

American University offers the opportunity for admission a year earlier than normal to freshman applicants whose ability, academic achievement, and general maturity indicate that they are ready to begin collegiate work. Applicants are considered on their own merit. However, major factors important to evaluation are:

1. The secondary school record, with special reference to grades achieved and the pattern of courses taken;
2. Performance on the Scholastic Assessment Test I (SAT I) or the American College Test (ACT);
3. The recommendation of the secondary school principal or counselor and two teacher recommendations;
4. A letter from the applicant stating the reasons for seeking early admission;
5. Possibly, an interview with a screening committee.

Early Decision

Freshman applicants whose first choice is American University are encouraged to apply as early decision candidates. Students admitted under the early decision plan learn of their admission by December 30 and receive first consideration for housing, financial aid, and course selection. The university, in turn, is assured that these students will enroll if admitted.

The deadline for applying for early decision is November 15, at which time all documents, including the \$45 application fee, must be on file with the Undergraduate Admissions Office. Early decision applicants may initiate applications to other schools before notification, but if they are admitted to American University as early decision candidates, they must submit a tuition deposit and withdraw all applications to other colleges and universities.

Early decision applicants are evaluated by the same criteria as all other freshman applicants. They may be admitted to the university in December, denied admission, or have their application deferred until the general admission reply date of April 1. Students deferred until April are released from the commitment to attend if admitted.

Campus Visits and Interviews

Prospective students are invited to visit the university but are not required to do so. Students are asked to make an appointment with the Undergraduate Admissions Office three weeks in advance if by mail, two weeks if by telephone.

Prospective freshmen participate in small-group sessions conducted by an admissions professional, who will review admission policy and procedure and answer questions about the university. Individual interviews are also conducted, however, an interview is not required prior to admission.

Campus tours are usually available for visitors before the information session. However, during holiday periods when the university is not in session, it may not be possible to gain access to classroom buildings and residence halls, and tour guides may not be available. At those times the university offers visitors a self-guided campus tour.

Students attending another college or university who are interested in transferring to American University may make appointments in advance for a campus tour and small-group conference tailored specifically to transfer student interests.

The Undergraduate Admissions Office is usually able to arrange classroom visits for prospective students when the request has been made well in advance. However, a visitor may attend classes with a friend enrolled at the university if permission of the professor has been granted in advance.

The Undergraduate Admissions Office holds scheduled overnight programs during the fall semester for prospective students in university residence halls. Visitors requesting overnight housing are asked to telephone the admissions office at least four weeks in advance. The admissions office can also provide a list of motels and hotels convenient to the campus.

Notice of Admission

General and early admission freshman applicants whose applications and supporting documents have been received by the Undergraduate Admissions Office by February 1 are notified of the decision on their applications by April 1.

Early decision applicants are notified of the decision by December 30; at that time early decision applicants may be admitted, denied admission, or deferred until the general admission date of April 1.

Transfer applicants are notified of decisions as they are made.

Full-time undergraduates are required to pay a nonrefundable \$200 tuition deposit to reserve a place in the class.

Complete detailed instructions for replying to the admission offer are provided with the notice of acceptance.

Learning-Disabled Program

American University offers a support program for learning-disabled students admitted as freshmen. Freshmen applicants should follow regular admissions procedures for the university. Those interested in the support program should also request a supplementary application for the Learning Services Program from the Center for Psychological and Learning Services.

There is no formal program for upperclassmen, transfer students, or graduate students, but there are support services available. To receive more information about the freshman program or about support services, write the Center for Psychological and Learning Services, American University, 4400 Massachusetts Avenue, NW, Washington, DC 20016, or call (202) 885-3360.

Freshman Admission Requirements

A graduate of an approved secondary school who has completed fifteen academic units—including at least four units in English, three units in college preparatory mathematics, including the equivalent of two units in algebra, and two units of foreign language—will be considered for freshman standing.

The following standardized tests should be taken as early as possible; applicants should request that official score reports be sent directly to the Undergraduate Admissions Office.

1. Scholastic Assessment Test I (SAT I) or American College Test (ACT) (required)
 2. SAT II in English Composition (recommended for placement)
 3. SAT II in a Foreign Language: Applicants who plan to continue the study of a foreign language begun in secondary school may wish to submit appropriate test scores for placement at the proper level.
 4. SAT II in Mathematics (Level I or Level II): Recommended for any freshman applicant whose intended major program of study requires course work in mathematics or statistics. A score of 650 in Math II will fulfill the University Mathematics Requirement.
- Additional SAT II test scores may be submitted at the discretion of the applicant.

American University requires all applicants whose first language is not English, regardless of citizenship, to take an English language proficiency examination. Applicants may take the Test of English as a Foreign Language (TOEFL) or the English Language Institute placement test (offered on the American University campus). TOEFL results should be sent directly to the university from the Educational Testing Service.

Equivalency Diploma

Holders of equivalency diplomas issued by state departments of education are eligible for consideration as freshmen but are subject to an entrance examination such as the SAT, ACT, or the School and College Ability Test (SCAT) at the request of the Undergraduate Admissions Office.

Veterans or current members of the armed forces who have taken the General Education Development Test (GED), the Comprehensive College Test, or the General Examinations of the College Level Examination Program (CLEP) should apply to their state departments of education for equivalency diplomas. Official certification of the diploma should be sent by the state department of education directly to the Undergraduate Admissions Office.

Advanced Standing

Upon recommendation of the appropriate teaching unit, advanced standing may be awarded or a course requirement waived for an entering student on the basis of performance in the College Entrance Examination Board's Advanced Placement Examination Program. In some secondary schools, enriched courses are offered under the Advanced Placement program. On the basis of scores achieved in the special examinations given, the applicant may be granted actual college credit or advanced placement in courses. A maximum of 30 credit hours earned in the Advanced Placement Examination Program may be applied toward a bachelor's degree.

All newly admitted or already matriculated students are eligible for course credit, with advanced placement where appropriate, on the basis of successful performance in College Level Examination Program (CLEP) Subject Examinations, provided that the student has not failed or completed for credit a course comparable in content. Course credit may be awarded at the discretion of the teaching unit for specific CLEP Subject Examinations with a score of 75% or higher. Teaching units approve the appropriateness of the content of the specific examinations for awarding credit. Selected CLEP examinations may be applied to up to four courses to meet General Education requirements (see below). Credit toward General Education requirements may be awarded only for examinations taken prior to entering American University.

Students should consult with their advisers as to how examinations will apply to their degree programs. With adviser approval, CLEP Subject Examinations may be scheduled in the Psychological and Learning Services office, Mary Graydon Center, room 201. Under no circumstances will students be permitted to re-take a Subject Examination.

The following are CLEP Subject Examinations accepted by American University for the 1997-98 academic year:

American Government (AU course equivalent 53.110*)
 American Literature
 Analysis and Interpretation of Literature plus essay
 Biology
 Calculus with Elementary Functions
 Freshman College Composition
 College French: Levels 1 and 2
 College German: Levels 1 and 2
 College Spanish: Levels 1 and 2
 Information Systems and Computer Applications
 Introduction to Educational Psychology
 English Literature plus essay
 General Chemistry (AU course equivalent 15.110 and 15.210*)
 Introductory Psychology
 Human Growth and Development
 Principles of Management
 Introductory Accounting
 Principles of Marketing
 Principles of Macroeconomics (AU course equivalent 19.100*)
 Principles of Microeconomics (AU course equivalent 19.200*)
 Introductory Sociology (AU course equivalent 65.2100*)

* course equivalents for General Education credit

Transfer Admission Requirements

To be considered for transfer admission, applicants normally should have maintained a minimum 2.00 grade point average (on a 4.00 scale) or the equivalent at an AG-rated regionally accredited institution or a Recognized Candidate for Accreditation or at least a 3.00 average from an AP-rated regionally accredited institution. Transfer applicants must also be in good academic and social standing at the school previously attended.

Note: Applicants to individual schools should have maintained a minimum grade point average (on a 4.00 scale) as follows:

School of Communication	2.50
School of International Service	3.00
School of Education (College of Arts and Sciences)	2.70

Transfer applicants with fewer than 24 credit hours completed at the time of application should also submit the secondary school record and standardized-test scores.

Transfer applicants who are also applying for financial aid should submit their admission applications and supporting documents by February 1 for fall entrance.

American University requires all transfer applicants whose first language is not English, regardless of citizenship, to take an English language proficiency examination. Applicants may take the Test of English as a Foreign Language (TOEFL) or the English Language Institute placement test (offered on the American University campus). TOEFL test results should be sent directly to the university from the Educational Testing Service.

Transfer of Credit

The Office of Undergraduate Admissions evaluates official documents showing previous college-level work completed. Individual teaching units determine how this credit will apply to specific degree programs.

Grades and quality points earned in courses accepted for transfer will not be included in the grade point average to be maintained at American University, but the credits will count toward the total number required for graduation.

Transfer students may normally expect to receive credit for courses taken at collegiate institutions that were, at the time the courses were taken, regionally accredited or Recognized Candidates for Accreditation. These courses must be appropriate for academic credit at American University towards an undergraduate degree program. A maximum of 75 credit hours will be accepted on transfer from four-year collegiate institutions as designated above. A maximum of 60 credit hours will be accepted from a two-year collegiate institution as designated above.

A maximum of 30 credit hours, or the equivalent, may be accepted on transfer for a combination of relevant work completed satisfactorily in Armed Services School courses or any Military Occupational Skills (MOS) completed with a grade of 70 or better, both as recommended for baccalaureate credit by the American Council on Education or for associate or baccalaureate credit as recommended by the Defense Activity for Non-Traditional Educational Support.

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A maximum of 30 credit hours may be granted for a combination of relevant work completed in (a) college-level nondegree, extension, or correspondence courses, provided the course work is appropriate for academic credit as determined by the Admissions Office after consultation with the appropriate academic unit where necessary; (b) noncollegiate (but not Armed Forces) organizations that are recommended at the baccalaureate level by the American Council on Education.

Transfer students may be awarded credit for satisfactory scores in Subject Examinations of the College Level Examination Program (CLEP). Students may not receive credit for a Subject Examination if a course comparable in content has been accepted in transfer by the university, or if the student failed such a course. (See Advanced Standing, above.) Official score reports must be sent directly to the Undergraduate Admissions Office from the Educational Testing Service. No transfer credit towards the General Education requirements may be earned once the student has matriculated at American University.

Admission from Nondegree Status

Students wishing to transfer from nondegree status at American University to undergraduate degree status must submit a formal application for admission to the Undergraduate Admissions Office. If a student is accepted into an undergraduate degree program, a maximum of 30 credit hours may be transferred from nondegree status to the degree program.

Admission for Part-time Study

An undergraduate student enrolled in fewer than 12 credit hours is considered a part-time student.

Applicants considering part-time study in a degree program are cautioned that they may be unable to complete the necessary course work for some degree programs by attending evening classes only. Before applying they should consult with the department of their proposed major to ascertain whether the required courses will be available to them.

Part-time degree applicants are required to meet the same standards for admission as full-time applicants, and should follow the instructions under either Freshman Admission Requirements or Transfer Admission Requirements, whichever is appropriate.

Readmission

An undergraduate student whose studies at the university are interrupted for any reason for a period of one semester (excluding the summer sessions) must submit a formal application for readmission and a reapplication fee of \$45 to the Undergraduate Admissions Office at least two months before the beginning of the semester or summer session for which the student wishes to be readmitted, unless written permission to study at another collegiate institution was secured in advance or the student has been granted an official leave of absence.

Students who were in good standing when they left the university and who have maintained a satisfactory grade point average at another school are virtually assured readmission. It is to a student's advantage to apply for readmission as early as possible so that he or she may register during the advance registration period.

A student who is readmitted is subject to the academic requirements and regulations in effect at the time of readmission.

University Degree Requirements

It is university policy that no student shall be involuntarily subject to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or the loss of academic credits earned to satisfy the requirements previously in effect.

Undergraduate students are governed by the following minimum requirements for the undergraduate degree (each teaching unit may have further major and major-related requirements). Undergraduate students are advised to consult their own adviser, department chair, or dean for detailed information.

Credit Hour and Residence Requirements

Associate Degree

The Associate in Arts degree requires the completion of at least 60 credit hours. At least 24 of the last 30 credit hours applied to the degree must be taken in residence at American University. A maximum of 36 credit hours may be transferred to the degree.

Students must complete at least 24 hours of courses in the General Education Program including one foundation course in each of the five curricular areas and one second-level course in each of three of the five curricular areas. Students must also fulfill the College Writing and English Competency Requirement and the University Mathematics Requirement.

Bachelor's Degrees

The university offers the following bachelor's degrees: Bachelor of Arts (B.A.), Bachelor of Fine Arts (B.F.A.), Bachelor of Science (B.S.), and Bachelor of Science in Business Administration (B.S.B.A.).

All bachelor's degrees require completion of at least 120 credit hours of course work. At least 45 credit hours out of the last 60 must be completed in residence at American University. A minimum of 15 credit hours must be completed at American University in upper-level courses in the student's major. A maximum of 75 hours may be transferred towards a bachelor's degree. Credit earned in any American University course, on or off campus, is residence credit. Credit earned by an American University student through the Consortium of Universities of the Washington Metropolitan Area is also residence credit.

Within the total 120 credit hours, students must fulfill a 6-credit-hour College Writing and English Competency Requirement, a 3-credit-hour University Mathematics Requirement, a 30-credit-hour General Education Requirement, and requirements for a major.

Two Undergraduate Degrees

Two undergraduate degrees may be conferred if a student satisfies both major and major-related requirements within two departments or schools and accrues at least 150 credit hours.

In order to be eligible for the second bachelor's degree, the student must apply for admission to the second degree program, preferably by the end of the junior year. If the student is granted admission to the second program, then upon completion of all requirements for the first program and the award of the first degree, the student's status will be changed to the second program. The student must again apply for graduation to be granted the second degree.

Combined Bachelor's and Master's Degrees

Students may earn both a bachelor's and a master's degree in a planned program of study during the third and fourth undergraduate years and first graduate year. Students are admitted to each level according to requirements established by the teaching unit.

Six graduate credit hours may be applied to the requirements for both degrees. For graduate programs requiring more than 36 credit hours, the number of hours applicable to both degrees may be increased.

Grade Point Average

Students enrolled in an undergraduate degree program must maintain a grade point average of at least 2.00 in order to remain in good standing and to graduate.

Major Requirements

Each undergraduate must complete at least 36 credit hours in the degree major and related courses, no fewer than 15 of which must be earned in upper-level courses taken in residence at American University.

A grade of C (2.00) or better is required for each major, major-related, or minor course. Students should note that a C- does not qualify and any course with a C- or lower will have to be repeated or an equivalent course taken to satisfy the major requirement involved. Courses in the major may be taken on a pass/fail basis only with permission of the student's dean or department chair.

Declaration of Major

By the end of the sophomore year, if not before, each student must choose and formally declare an academic major.

Admission to the university in an undergraduate program does not automatically constitute admission to a major program. Acceptance is official only when specific approval has been granted by the department chair or program director.

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Double Majors

A student may complete a double major by satisfactorily passing the major and major-related course work required by two departments or schools.

If the double major is pursued in two schools, the student must designate when declaring the two majors which school he or she will be enrolled in and graduated from. The student will need to satisfy the general requirements of that school only. If a student is majoring in two recognized majors that lead to different degrees (e.g., B.A. and B.S.), the student specifies which of the two degrees is to be awarded. A student may apply the same course to both major programs if it meets both sets of requirements.

Interdisciplinary Majors

In addition to the established major programs, students have the option of constructing their own major programs leading to a B.A. or B.S. in Interdisciplinary Studies. To design and complete an interdisciplinary major, a student must have the approval of three faculty members who represent the various disciplines involved in the interdisciplinary field. The major adviser must be a full-time faculty member.

Interdisciplinary major programs must include at least 42 credit hours, including 36 credit hours selected to form an academically sound, unified, and well-defined program and 6 credit hours in independent study or senior seminars. At least 75 percent of the 36 credit hours must be upper-level as defined by the teaching units that offer them. Students are encouraged to include at least two .500-level courses, although in some areas this may not be possible.

For permission to undertake an interdisciplinary major, the student applies to the dean of the school or college in which he or she is enrolled. A maximum of 18 credit hours of work completed prior to the semester in which application is made may be included in the program. The two independent study courses or senior seminars must be supervised by the major adviser and must be focused on the program's central concept. For more information, see the Interdisciplinary Programs chapter.

Minors

Specific course requirements for minors are listed under departmental programs. All minor programs consist of a minimum of 18 credit hours, including at least 9 credit hours at the .300 level or above. For all minors, at least 9 credit hours of the stated requirements must be taken in residence at American University. At least 12 credit hours of the minor must be outside of the course requirements for each major the student is pursuing.

A grade of C (2.00) or better is required for each course used to satisfy the requirements of a minor.

Students should consult with their advisers as to the procedure for declaring a minor. Minors are noted as a comment on the student's permanent record at the time of graduation, but will not appear on the student's diploma.

Interdisciplinary Minors

Students may also earn an interdisciplinary minor by completing an individually constructed program satisfying the requirements stated above and consisting of courses from different disciplines united by a common theme and modeled after interdisciplinary majors. For more information, see the Interdisciplinary Programs chapter.

Changes in Field of Study

A student who wishes to change from one college or school to another, or from one major to another, must receive the permission of the dean or department chair in charge of the program to which the student wishes to transfer. A change in college, school, or major affiliation, when approved, may not become effective until the beginning of the next semester. It does not become effective if the student is suspended or dismissed. A student who changes a field of study may lose credit already earned in other study that is not appropriate to the new program.

Undergraduate University Requirements

College Writing and English Competency Requirement

All students must be able to write with a level of mastery equal to the demands of college course work. In addition, students need to acquire the critical reading skills necessary in all their courses. The College Writing and English Competency Requirement may be fulfilled through course work, examination, or a combination of the two. The English Competency Examination is given twice a year, in October and February.

Most students satisfy the College Writing and English Competency Requirement in their freshman year by passing one of the following 6-credit course sequences with grades of C or better:

- 23.100 College Writing *and*
23.101 College Writing Seminar
- 23.102 College Writing *and*
23.103 College Writing Seminar
(for students who need extra work on language skills)
- 23.130 Honors English I *and*
23.131 Honors English II
- 74.200 College Reading and Writing I *and*
74.201 College Reading and Writing II
(for nonnative speakers of English)

The College Writing and English Competency requirement may also be satisfied through examination or a combination of examination and course work:

- Advanced Placement English Test score of 4 or 5
- CLEP College Composition exam score of 75% *and* either 23.100 or 23.101 *and* passing the English Competency Examination

Students who transfer to American University may also satisfy the requirement in one of the following ways:

- Transferring 6 credit hours of acceptable composition credit from another institution *and* passing the English Competency Examination.
- Transferring 3 credit hours of acceptable composition credit from another institution *and* passing the first course in the college writing sequence with a C or better *or* taking the second course in the college writing sequence *and* the English Competency Examination

Note: When the competency exam is required, students who fail the exam twice must enroll in 23.180 Writing Workshop (or 74.280 College Writing Skills Workshop for nonnative speakers of English) and must pass the course with a grade of C or better.

The English Competency Examination is administered by the Department of Literature. For more information consult the Department of Literature, Gray 202, (202) 885-2971.

Nonnative and native speakers of English must meet the same requirements. All students whose first language is not English are required to have their proficiency evaluated by the English Language Institute (ELI) before their first registration, whether or not they transfer English credit from another institution. ELI has the primary responsibility for advising nonnative speakers, evaluating their examinations, and providing whatever support services are needed for nonnative speakers who do not pass the examination. Students who need assistance should contact the English Language Institute, McKinley 206, (202) 885-2147.

Students who do not pass the examination may have an interview with one of the test evaluators, who review each student's test results, explain the deficiencies, and counsel the student about additional work on these basic skills through courses, tutorials, or independent study. The Writing Center in the Department of Literature, Gray Hall 206, (202) 885-2991 offers a workshop to help students prepare for the test. Learning Services, which is part of the Center for Psychological and Learning Services, has developed a preparation packet for the examination. It includes a practice exam which can be evaluated by a Learning Services staff member who can offer suggestions for improvement and provide remedial materials. Learning Services is located in Mary Graydon Center 201, (202) 885-3360.

University Mathematics Requirement

American University requires that all students demonstrate skills in college level mathematics and quantitative reasoning. Students must enroll in an appropriate mathematics course before the completion of 30 credits, that is, in the first or second semester of full-time study, or satisfy the requirement through examination, as specified below.

Students meeting the requirement through course work must receive a C or better in one of the following courses as advised:

- 41.150 Finite Mathematics *or*
41.151 Finite Mathematics *or*
41.155 Finite Mathematics: Elementary Models *or*
41.157 Finite Mathematics: Business
- An American University mathematics or statistics course at the level of Finite Mathematics or above. This includes, for example:
41.170 Precalculus Mathematics
41.211 Applied Calculus I
41.221 Calculus I
42.202 Basic Statistics

Note: The Department of Mathematics and Statistics will recommend placement in mathematics courses. Newly-admitted students may take the Mathematics and Statistics Placement Examination during orientation. Students whose placement is below **Finite Mathematics** must take **41.022 Basic Algebra** before enrolling in **41.15x Finite Mathematics**.

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The University Mathematics Requirement may also be satisfied through examination:

- AP Calculus AB or AP Calculus BC score of 3, 4, or 5
- SAT II Mathematics Level II Achievement test score of 650
- CLEP Calculus exam score of 75%
- British A-level mathematics examination with a passing grade
- International Baccalaureate mathematics examination score of 6 or above

Transfer students and graduates of secondary schools outside the United States may also satisfy the University Mathematics Requirement in one of the following ways:

- Passing an examination given by the Department of Mathematics and Statistics demonstrating competence equivalent to 41.15x Finite Mathematics, 41.211 Applied Calculus I or 42.202 Basic Statistics. Only one of these exams may be taken and that exam may be taken only once, during the student's first semester. Eligible students should contact the Department of Mathematics and Statistics for more information about the Mathematics and Statistics Equivalency Examination.
- Transferring a course titled "Calculus I," or a mathematics course for which "Calculus I" is a prerequisite, with a grade of B or better, from an AG-rated collegiate institution, taken prior to enrolling at American University.

General Education

American University's General Education Program, required of all undergraduates, is designed to provide a challenging and focused liberal arts foundation. The General Education Program, including university requirements in writing and mathematics, constitutes approximately one third of a student's course work at the university. During the first year, students satisfy university requirements by earning a grade of C or better in 6 hours of college writing course work and 3 hours of college mathematics course work or through examination. In addition, students take 30 hours of General Education Requirements drawn from five curricular areas: The Creative Arts, Traditions that Shape the Western World, International and Intercultural Experience, Social Institutions and Behavior, and The Natural Sciences. These requirements are designed to be completed during the first two years of study.

American University is committed to giving students a strong intellectual foundation, ensuring that they understand the interrelatedness of a wide range of intellectually and culturally important disciplines, and that they experience the challenge and excitement of study in depth. Consequently, each student takes two sequenced courses in each of the five curricular areas: a foundation course followed by a second-level course that reinforces the objectives and concepts of the first course.

The program is based on the idea that students should develop an appreciation of the forms of creative human expression; awareness of the cultural, philosophical, and historical frameworks of the world's cultures; an understanding of the structures, patterns, principles, and values that affect the organization of societies and the relationship between the individual and society; a basic understanding of the natural sciences; and the ability to apply diverse modes of inquiry and critical reasoning to gather data and solve problems in all areas of knowledge. In short, the General Education Program aims to develop informed, effective minds suited for a complex and changing world.

Academic Standards and Regulations

Academic Advising

Academic advising is an essential element of the educational process. American University requires adviser-student conferences at least once a semester, but students have the responsibility for selecting their courses, meeting course prerequisites, and adhering to university policies and procedures. The adviser assists the student in obtaining a well-balanced education and interprets university policies and procedures.

Students should be aware of the university's many advising resources and utilize these resources as needs arise. Students may consult faculty and peer advisers, department chairs, deans, and student support services throughout the university. The university has the responsibility to ensure that advising resources maintain high standards for serving students effectively and efficiently.

The university uses an automated degree audit system (DARS) to track each student's academic progress. The individualized DARS report organizes university, General Education, degree, major and minor requirements into component parts. The DARS report displays completed courses and course requirements to be fulfilled. Prior to an official declaration of major the reports are based on requirements for the student's intended major. These reports are issued in the fall and spring semesters before the start of registration for the next semester. However, students may request a copy of their DARS report at any time from their adviser or the Office of the Registrar.

Academic Load

An undergraduate student admitted to and enrolled in a degree program usually registers for 15 credit hours each semester so that the required minimum of 120 credit hours for the bachelor's degree is completed in four years.

In any given semester, a student may carry a minimum of 12 credit hours and be classified and certified (for veteran's benefits, financial aid, etc.) as full-time for that semester. The additional credit hours must be made up through summer enrollment or by an overload (if approved by the dean) in another semester in order to maintain normal annual progress toward the degree, as is often required by the regulations of government agencies. Students are urged to become familiar with such regulations. A total of 19 credit hours is the maximum load permitted without special approval.

An undergraduate student wishing to register for more than 19 credit hours in a semester is required to have the approval of the academic adviser and the appropriate dean. The approval is for the overload, not permission for a specific course. A per-credit-hour tuition fee is assessed, in addition to the full-time tuition fee, for registered credit hours over seventeen.

Class Standing

Undergraduate class standing is defined as follows:

Credit Hours Completed	Standing
0-29	Freshman
30-59	Sophomore
60-89	Junior
90-120	Senior

Students enrolled in a degree program requiring the completion of more than 120 credit hours will be considered seniors from the time they have completed 90 credit hours until they have completed all of their degree requirements.

Evaluation of Progress

An evaluation of each undergraduate student's progress is made by the office of the student's dean after each semester. In addition to the cumulative grade point average, this evaluation considers completion of all university requirements and the ratio of courses satisfactorily completed to all courses attempted by the student. Students who are not making satisfactory progress are informed in writing of the result of their evaluation and offered academic advisement.

The university has no strict regulations governing the total amount of time an undergraduate student may take to fulfill the requirements for a degree, provided the student maintains the appropriate grade point average and gives evidence of being seriously interested in the eventual achievement of his or her academic objective.

Academic Probation and Dismissal

An undergraduate student who fails to maintain the required 2.00 cumulative grade point average but whose average is 1.75 or higher may be granted probationary status for one year. Academic probation is an action usually taken only in the first two years of full-time study or the equivalent in part-time study. Dismissal may be anticipated by any student whose cumulative grade point average in the third or fourth year of full-time study (or the equivalent in part-time study) falls below 2.00, or whose average in any semester falls to 1.00 or below. Actions involving academic probation and dismissal are entered on the student's permanent record and may not be removed.

A student on probation may be subject to restrictions as to the course load for which he or she may register. Such a student is ineligible to hold office in student organizations or to participate in intercollegiate activities. The student may be given permission to participate in intercollegiate athletics at the end of a semester in which the student's cumulative grade point average has been raised to 2.00, even though the student's probation may extend for an additional semester.

The grade point average is only one measure of academic performance. Maintenance of the required average does not nec-

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essarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance is judged unsatisfactory even though the student has maintained the required grade point average.

A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

Freshman Forgiveness

A freshman who, during the first two semesters of full-time study, receives a grade of F or X in a course may repeat the course at American University within the calendar year thereafter, or in the next two regular semesters in which the student is enrolled. If the course is not offered within that time, the student may use the option the next time it is offered. No grade is removed from the student's record, but only the grade earned the second time the course is taken is used in calculating the grade point average for purposes of making decisions concerning probation, dismissal, and required average for graduation.

A part-time undergraduate or nondegree student who, during the first 30 credit hours of study, receives a grade of F in a course may repeat the course at American University within one calendar year after the semester in which the grade of F was received, with the resulting cumulative index benefits stated above.

The freshman forgiveness rule does not apply to transfer students even though they may have entered the university with freshman status.

Pass/Fail

Students may take up to 50 percent of their courses on a pass/fail basis. If a student's major department approves, this percentage may be greater. Courses in the student's major must be taken for a letter grade unless special permission is given by the dean or department chair. The grade of P (pass) is not used in calculating the grade point average. (For more information, see the Academic Information and Regulations chapter.)

Graduate Credit

Senior students, with the written permission of their department chairs or deans, may enroll in specifically approved graduate courses not required for their undergraduate programs. Such courses must be designated in writing as graduate-degree credit at the time the student registers for them. A copy of this written agreement must be filed in the Office of the Registrar. Retroactive application of these credits for such purposes is not permitted. Credit for these courses may be applied toward meeting the course requirements for a graduate degree after the student has been awarded an undergraduate degree if the student is then admitted to a graduate degree program.

Study at Another Institution

Study at another institution is usually undertaken during the summer or as part of an overseas program.

An enrolled student who plans to take courses at another college or university for transfer credit to American University must be in good academic standing and must receive prior approval from the student's department chair and dean using the Permit to Study Abroad form or the Permit to Study at Another U.S. Institution form. For study abroad, approval is also required from the director of the World Capitals Program. If the course to be taken is outside the area of the student's major, the chair of the department which would offer credit for such a course must also approve the permit. Approval is granted for specific courses.

The visited institution, if in the United States, must be regionally accredited. Students who have earned 60 or more credits toward their degrees (junior standing) at the time they undertake work at another U.S. institution may have credit transferred only from institutions accredited for granting bachelor's or higher degrees. With departmental approval, transfer credit is applicable toward the requirements of a major.

Transfer credit may be used to fulfill General Education Requirements through the evaluation of equivalent courses taken at another institution and with the approval of the student's dean. Because of the special nature of the program, after the student has been admitted to American University no credit toward General Education Requirements may be earned through transfer credit.

Study Abroad

American University offers numerous study abroad programs through the World Capitals Program. For more information, see the International and Special Programs chapter.

Students may also participate in study abroad programs offered by other institutions that are part of a regionally accredited U.S. college or university, and are recorded on the transcripts of those institutions. For determination of regional accreditation, the publication *Credit Given* is the accepted reference.

After consultation with and approval of the student's dean and the director of the World Capitals Program, application is made directly to the institution for admission to its foreign study program. Transfer credit will be granted on the basis of the transcript from the sponsoring U.S. college or university.

Students may also attend institutions abroad not affiliated with an American college or university. Requests for transfer credit must be made on a Permit to Study Abroad form and must be approved before the student registers at the foreign institution. The institution to be visited must be approved by the student's dean and the director of the World Capitals Program. The student's dean or academic adviser will evaluate the official transcript when the student returns for the value in credit hours of the work completed, and will forward the transcript and evaluation to the Office of the Registrar for transfer of approved credit. The student's academic adviser and dean also approve the academic areas or specific courses of study.

Leave of Absence

Undergraduate students desiring a leave of absence for reasons other than study at another collegiate institution should request an appointment with their dean. If it seems desirable to guarantee the student an automatic readmission, the dean will issue a permit for leave of absence. This permit will specify a limitation, one year at most, of automatic readmission to the same undergraduate program.

The permit becomes void if the student attends any domestic or foreign collegiate institution during the period of leave. In such instances, the student must obtain a permit to study at another institution before leaving American University.

Resuming Study

Students who cease to attend the university for an entire semester, whether voluntarily or not, may not resume study until they have been readmitted. Readmitted students are subject to all regulations and must meet all requirements in force when studies are resumed unless other arrangements have been agreed to in writing by the student's dean before the beginning of such an absence.

Students who change degree objective, college, or school, or who choose to conform to new regulations or requirements, must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

University Honors and Awards

Dean's List

Each college or school may issue a dean's list of its undergraduate honor students at the end of each semester. The minimum standard for listing is a 3.50 grade point average for the semester, earned in a full-time undergraduate program of not fewer than 15 completed credit hours of which at least 12 hours must be completed for A–F grade credit.

Graduation and University Honors

There are two kinds of undergraduate graduation honors at American University: Latin Honors, based on cumulative grade point average, and University Honors, based on a combination of honors course options and cumulative grade point average.

To be eligible for graduation honors, students must have completed at least 60 credit hours required for their degree in residence at American University and have achieved the requisite grade point average.

Latin Honors

Undergraduate Latin Honors and the grade point averages required are as follows: *summa cum laude*: 3.90 or higher; *magna cum laude*: 3.70 through 3.89; *cum laude*: 3.50 through 3.69. No more than 15 credit hours taken pass-fail may be included in American University work applied toward Latin Honors. Courses taken pass-fail are not computed in the grade point average. Latin honors are listed in the commencement program and on the student's diploma and permanent record.

University Honors Program

Students who fulfill the requirements for the University Honors Program are eligible to graduate with University Honors. University Honors Program students whose honors work includes completion of 12 hours of advanced-level honors work in the department, including the senior project, are eligible, upon departmental recommendation, to graduate with University Honors in the Major. University Honors designations are listed in the commencement program and on the student's diploma and permanent record.

The University Honors Program offers a four-year program of honors options to qualified undergraduate students. Honors work is offered at all levels and in all departments. The program is characterized by small seminars, individualized attention from faculty, unique access to the resources of Washington, D.C., and the special atmosphere of an honors community of committed faculty and students.

University Honors students must complete 30 hours of honors work. Honors program students must receive a grade of B or better in each honors course and maintain a cumulative grade point average of 3.00 or above.

Honors students take 12 to 18 hours of foundation-level work from honors sections of English, mathematics, General Education or departmental introductory courses. Six to 12 hours of advanced level (.300 or above) specialized honors work is drawn from honors sections of major or major-related courses, honors supplements linked to courses in the major or related fields, University Honors seminars, and honors independent study. All students complete an honors senior capstone project (3 to 6 hours).

Qualified entering freshmen, transfer students, and current students are eligible for admission to the program. Students, including transfers, may be admitted to the program at the discretion of the honors director if they have achieved a cumulative college grade point average of 3.50 on a 4.00 scale for the equivalent of at least one full semester of work (15 credit hours).

Students who enter the University Honors Program after beginning the freshman year are not required to complete the full 30 hours of honors course work. Exceptions to the number of required hours are subtracted from the foundation-level requirements.

For more information, consult the University Honors Program, Ward 312, (202) 885-6194.

Honorary Societies

Senior students have the opportunity to be elected to the American University chapter of the nation's oldest honorary scholastic society, Phi Beta Kappa. Membership is based on exceptional academic achievement and specific course work requirements in the liberal arts. Election to the American University chapter of Phi Kappa Phi is also available for qualified students.

Many academic disciplines have chapters of national honor societies at American University, including business, chemistry, economics, history, international relations, political science, criminal justice, public affairs and administration, and sociology.

There are also chapters of Golden Key, Mortar Board (honors senior students for leadership, scholarship and service), Omicron Delta Kappa (honors junior, senior and graduate students for scholarship and leadership) and Alpha Lambda Delta (honors freshmen for scholastic achievement).

Student Awards & Fellowships

The Office of Student Awards & Fellowships helps undergraduate students at American University identify, prepare and apply for a variety of merit-based scholarships, awards, and fellowships for which they are eligible. While some are awarded during the undergraduate program, others are intended for use after completion of a bachelor's degree.

The opportunities include the highly prestigious Rhodes Scholarship, for two years of study at Oxford University, and the Marshall Scholarship, for two years of study at a British university. Fulbright Grants provide for a year of research and graduate study in a foreign country. Rotary International sponsors scholarships for academic training in a foreign country. The Mellon Fellowships in Humanistic Studies fund graduate study for those who wish to pursue careers in scholarship and teaching in the humanities. The Woodrow Wilson Program in Public Policy and International Affairs prepares students of color for careers in these fields through summer institutes and graduate fellowships. Fawcett Fellows serve at a U.S. embassy or consular office in Eastern Europe or the former Soviet Union for one year. Truman Scholarships fund outstanding students with an interest in public service for their senior year and up to three years of graduate school. National Science Foundation Fellowships fund outstanding students interested in pursuing doctoral degrees in the natural, physical and social sciences.

A number of American University students have won these highly selective awards. Successful candidates for these opportunities possess a combination of intellect, commitment to service, leadership qualities, strong writing skills, and creativity, as demonstrated by scholastic achievement, campus activities, and community involvement.

For more information about special awards and fellowships, contact the Office of Awards & Fellowships, located in the Career Center, 5th floor Butler Pavilion, or call (202) 885-1817.

Fields of Study

Undergraduate Majors

Accountancy (B.S.)
 American Studies (B.A.)
 Anthropology (B.A.)
 Art History (B.A.)
 Audio Technology (B.S.)
 Biology (B.S.)
 Business Administration (B.S.B.A.)
 Chemistry (B.S.)
 Communication: Journalism (B.A.)
 Communication: Public Communication (B.A.)
 Communication: Visual Media (B.A.)
 Computer Information Systems (B.S.)
 Computer Science (B.S.)
 Economic Theory (B.A.)
 Economics (B.A.)
 Elementary Education (B.A.)
 Environmental Studies (B.A.)
 Fine Arts (B.F.A.)
 Foreign Language and Communication Media (B.A.)
 French Studies (B.A.)
 German Studies (B.A.)
 Graphic Design (B.A.)
 Health Promotion (B.S.)
 History (B.A.)
 Interdisciplinary Studies (B.A., B.S.)
 Interdisciplinary Studies: Communication, Legal
 Institutions, Economics, and Government (B.A.)
 International Studies (B.A.)
 Jewish Studies (B.A.)
 Justice (B.A.)
 Language and Area Studies:
 French/Europe (B.A.)
 German/Europe (B.A.)
 Russian/Area Studies (B.A.)
 Spanish/Latin America (B.A.)
 Law and Society (B.A.)
 Liberal Studies (B.A.)
 Literature (B.A.)
 Mathematics (B.S.)
 Mathematics, Applied (B.S.)
 Music (B.A.)
 Performing Arts: Music Theatre (B.A.)
 Performing Arts: Theatre (B.A.)
 Philosophy (B.A.)
 Physics (B.S.)
 Political Science (B.A.)
 Psychology (B.A.)
 Russian Studies (B.A.)
 Secondary Education (second major only)
 Sociology (B.A.)
 Spanish Studies (B.A.)
 Statistics (B.S.)
 Studio Art (B.A.)
 Women's and Gender Studies (B.A.)

Undergraduate Minors

American Studies
 Anthropology
 Applied Anthropology
 Art History
 Audio Technology
 Biology
 Business Administration
 Chemistry
 Communication
 Computer Information Systems
 Computer Science
 Dance
 Economics
 Education Studies
 Environmental Science
 French Language
 German Language
 Graphic Design
 Health Promotion
 History
 Interdisciplinary Studies
 International Studies
 Japanese Language
 Jewish Studies
 Justice
 Language and Area Studies:
 French/Europe
 German/Europe
 Japanese/Asia
 Russian/Area Studies
 Spanish/Latin America
 Literature
 Literature: Cinema Studies
 Mathematics
 Music
 Philosophy
 Physics
 Political Science
 Psychology
 Public Administration
 Quantitative Methods
 Religion
 Russian Language
 Russian Studies
 Sociology
 Spanish Language
 Special Education
 Statistics
 Studio Art
 Theatre
 Women's and Gender Studies



General Education Program

- Requirements
- Prerequisites
- Transfer Credit
- Curricular Areas

The General Education Program is designed for all undergraduate students regardless of degree program. Aimed at building a strong intellectual foundation, the 30 hours of General Education Requirements are drawn from five curricular areas. The program is designed to be completed during the first two years, allowing students ample time to pursue a major as well as study abroad, internships, and cooperative education.

Curricular Area Course Requirements

Students select courses from those that are designated in the catalog as General Education courses. Students choose two courses, one foundation course and one second-level course in the same cluster (6 credit hours), in each curricular area:

The Creative Arts

Traditions that Shape the Western World

International and Intercultural Experience

Social Institutions and Behavior

The Natural Sciences

Courses at the foundation level introduce students to the fundamental concepts, issues, and achievements in the disciplines. Courses deal explicitly with the appropriate processes and standards for gathering and evaluating information (quantification, experiments, primary sources, authoritative texts) and interpretation (methods of investigation and analytic skills) in a specific disciplinary field. All science foundation courses include laboratory experience. The courses are designed to help students achieve a broad view of how different disciplinary viewpoints and fields of knowledge can contribute to their understanding of themselves and the world around them.

General Education foundation courses differ from traditional survey courses by integrating into the course some of the perspectives and foundation skills essential to a full education. These elements include the following, as appropriate:

- writing experience to enhance basic communication skills and to reinforce what is taught in the College Writing program
- a critical thinking component to enhance the ability to make and analyze judgments based on reasoning and evi-

dence and to evaluate the reliability of sources of information

- recognition of the ethical issues pertinent to the field or discipline
- development of quantitative and computing skills
- development of intuitive, creative, and aesthetic faculties, and the ability to connect these with reasoning skills
- attention to a variety of perspectives, including those perspectives that emerge from the new scholarship on gender, race, and class as well as from non-Western cultural traditions

The second-level courses follow specific foundation courses, forming a coherent curricular sequence and reinforcing the learning objectives of the foundation course. The foundation courses selected from a variety of disciplines assure breadth in the student's program while the second-level courses build on the foundation and encourage study in depth.

Course Selection

Students select two courses, a foundation course followed by a more specialized course in an approved sequence, in each curricular area. Students will *not* be able to satisfy General Education Requirements with more than two courses in any one discipline even though a discipline may have courses included in more than one curricular area. Courses required for College Writing and University Mathematics do not count in the two-course limit.

Prerequisites

A second-level course may not be taken for General Education credit until after the prerequisite foundation course has been satisfactorily completed. Students who have placed at or below Finite Mathematics must satisfy the University Mathematics Requirement before enrolling in a foundation course in The Natural Sciences curricular area. Students who have placed above Finite Mathematics may take the foundation course in the Natural Sciences curricular area at the same time they take the course work satisfying the University Mathematics Requirement, or even beforehand.

Relation to the Major

The requirements for the major, the area of a student's academic concentration, are listed under individual degree programs in this publication. Many of the courses in the General Education Program also meet requirements of the major. Students interested in a double major need to plan ahead if they expect to fulfill all requirements within 120 credit hours.

Grading Requirements

To receive General Education credit, a student must successfully complete a General Education course with a grade of D or better. Students may elect to take a General Education course on a pass/fail basis. However, if the course is also being taken to fulfill a requirement for the major the grading policies for that program should be consulted.

Advanced Placement Credit

Students presenting a 4 or 5 on the Advanced Placement examination, 75% on the CLEP examination, or grades for which they have received credit from the British A Levels, CEGEP, International Baccalaureate, German Abitur, or other international credential for which they have been granted credit by American University may apply the credit for up to four courses to meet General Education requirements in any of the five curricular areas. Credit for General Education may only be awarded when specific General Education courses, which have been so designated, match particular exam results (with the exception of the CEGEP and German Abitur, which are handled ad hoc) and only for examinations taken prior to entering American University. Specific information regarding application of this principle is contained in the "General Education Advanced Placement Credit Articulation" effective for the academic year of admission. This document is maintained by the General Education office and is available in all advising units.

Curricular Area 1: The Creative Arts

This dimension of the curriculum is designed to develop an informed understanding of literary and artistic creativity and of the distinct aesthetic languages of the visual arts, literature, music, theatre, and dance. Students gain this understanding through the study of historical and contemporary examples of the arts and letters, or through the disciplined practice of a creative art form.

Course Goals

- study classic works of the human imagination
- critically analyze creative works from the viewpoints of form, style, and meaning

Transfer Students

Transfer students satisfy their General Education Requirements through a combination of appropriate transfer courses and completion of courses in the General Education Program at American University. Through the evaluation of equivalent courses taken at another institution and with the approval of a student's dean, transfer credit may fulfill all 30 credit hours. In some cases, students supplement transfer credit with General Education courses taken at the university to meet the 30-hour requirement. The need to satisfy sequences is waived when 6 hours in a curricular area are accepted for transfer credit.

Associate in Arts Degree

In the fields in which the university offers an associate degree, this degree requires the completion of at least 60 credit hours. Twenty-four hours of courses must be in the General Education Program, to include one foundation course in each of the five curricular areas and one second-level course in each of three of the five curricular areas.

Study Abroad

Students who choose to participate in Study Abroad in Rome, Brussels, Madrid, Vienna, Buenos Aires, London, or Santiago may substitute that experience for a second-level course in the designated sequence and receive 3 credits toward the General Education Requirements. No other Study Abroad programs have been approved for General Education credit.

Study at Another Institution

Transfer credit may be used to fulfill General Education Requirements through the evaluation of equivalent courses taken at another institution and with the approval of the student's dean. Because of the special nature of the program, after the student has been admitted to a degree program at American University no credit toward General Education Requirements may be earned through transfer credit.

- understand how and by whom aesthetic value judgments have been made historically
- examine the nature of imaginative and intuitive thinking
- consider the relationship between problem solving and creativity
- develop aesthetic sensibility, discernment, and informed judgments
- explore the interaction of art and society
- develop creative and expressive abilities in order to understand the qualities that shape an artist's work

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

05.100 Art: The Studio Experience

- 05.205 Drawing: Responding to Vision
- 05.210 Painting: Color, Form, Expression
- 05.215 Sculpture: Form and Expression in 3-D
- 05.220 Design: Color Theory and Practice
- 05.225 Design: Form, Space, Vision
- 07.210 Modern Art: 19th and 20th Centuries
- 60.230 Meaning and Purpose in the Arts
- 64.200 Creativity and Computers

07.105 Art: The Historical Experience

- 05.210 Painting: Color, Form, Expression
- 05.215 Sculpture: Form and Expression in 3-D
- 07.210 Modern Art: 19th and 20th Centuries
- 07.215 Architecture: Washington and the World
- 23.270 Transformations of Shakespeare
- 67.210 The Great Composers: Lives and Music

17.105 Visual Literacy

- 05.205 Drawing: Responding to Vision
- 05.220 Design: Color Theory and Practice
- 07.210 Modern Art: 19th and 20th Centuries
- 07.215 Architecture: Washington and the World
- 67.220 Reflections of American Society on Stage and Screen
- 67.225 The African American Experience in the Performing Arts

23.105 The Literary Imagination

- 03.225 Language and Human Experience
- 23.225 The African Writer
- 23.240 Narrative and Knowledge
- 23.245 The Experience of Poetry
- 60.230 Meaning and Purpose in the Arts
- 64.200 Creativity and Computers

23.120 Interpreting Literature

- 03.225 Language and Human Experience
- 23.215 Writers in Print/in Person
- 23.225 The African Writer
- 23.245 The Experience of Poetry
- 23.270 Transformations of Shakespeare
- 67.215 Opera on Stage and Film

23.135 Critical Approach to the Cinema

- 23.240 Narrative and Knowledge
- 60.230 Meaning and Purpose in the Arts
- 64.200 Creativity and Computers
- 67.215 Opera on Stage and Film
- 67.220 Reflections of American Society on Stage and Screen
- 67.225 The African American Experience in the Performing Arts

67.110 Understanding Music

- 07.210 Modern Art: 19th and 20th Centuries
- 60.230 Meaning and Purpose in the Arts
- 64.200 Creativity and Computers
- 67.205 Masterpieces of Music
- 67.210 The Great Composers: Lives and Music
- 67.215 Opera on Stage and Film
- 67.225 The African American Experience in the Performing Arts

67.115 Theatre: Principles, Plays and Performance

- 03.225 Language and Human Experience
- 05.225 Design: Form, Space, Vision
- 23.215 Writers in Print/in Person
- 23.270 Transformations of Shakespeare
- 67.200 Dance and Society

67.160 On Stage! Dance–Music–Theatre

- 05.220 Design: Color Theory and Practice
- 67.200 Dance and Society
- 67.210 The Great Composers: Lives and Music
- 67.215 Opera on Stage and Film
- 67.220 Reflections of American Society on Stage and Screen

Curricular Area 2: Traditions that Shape the Western World

This curricular area aims to enrich students' knowledge and appreciation of Western civilization. Courses explore the people, forces, events, and institutions that have shaped history, and the various philosophical, religious, and ethical questions that provide the foundation for moral choice. Students become aware of the accomplishments and limitations of particular cultures, of how our lives today reflect the past from which we evolved, and of how ideas about the past shape perceptions of the present and plans for the future.

Course Goals

- understand the historical and philosophical traditions that shape the Western world
- recognize that Western intellectual traditions are defined by diversity as much as by commonality, by both resistance to and enrichment by influences from the rest of the world, and that challenge to authority has been a distinctive characteristic of these traditions
- read and discuss fundamental texts from these traditions
- examine and assess evidence, draw conclusions, and evaluate the meaning of these conclusions
- examine historical and philosophical issues critically and comparatively
- consider the contributions of ethical and religious systems to human life
- discuss the complex interplay between the rich varieties of tradition and the necessity of change

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

07.100 European Art: From Cave to Cathedral

- 07.205 Art of the Renaissance
- 29.200 Italian Civilization (Study Abroad)
- 34.205 Ancient and Medieval Jewish Civilization
- 37.230 The Modernist Explosion: Culture and Ideology in Europe
- 51.230 Changing Views of the Universe
- 61.220 Religious Thought

23.115 Remarkable Literary Journeys

- 02.205 American Dreams/American Lives
- 23.235 African American Literature
- 23.265 Literature and Society in Victorian England
- 29.200 Italian Civilization (Study Abroad)
- 34.205 Ancient and Medieval Jewish Civilization
- 73.220 Cities and Crime

29.100 Historians and the Living Past

- 17.270 How the News Media Shape History
- 29.235 The West in Crisis, 1900–1945
- 51.230 Changing Views of the Universe
- 57.230 Theories of Personality
- 65.215 The Rise of Critical Social Thought

29.110 Renaissance and Revolutions: Europe, 1400–1815

- 07.205 Art of the Renaissance
- 23.265 Literature and Society in Victorian England
- 29.215 American Encounters: 1492–1865
- 29.235 The West in Crisis, 1900–1945
- 37.230 The Modernist Explosion: Culture and Ideology in Europe
- 60.210 European Philosophy and the American Experiment

29.115 Work and Community

- 02.205 American Dreams/American Lives
- 23.235 African American Literature
- 29.215 Social Forces that Shaped America
- 34.210 Voices of Modern Jewish Literature
- 73.220 Cities and Crime

53.105 Individual Freedom vs. Authority

- 17.270 How the News Media Shape History
- 29.205 American Encounters: 1492–1865
- 29.235 The West in Crisis, 1900–1945
- 37.230 The Modernist Explosion: Culture and Ideology in Europe
- 57.230 Theories of Personality
- 60.210 European Philosophy and the American Experiment
- 73.225 American Legal Culture

60.105 Western Philosophy

- 02.230 Tribal Traditions
- 29.200 Italian Civilization (Study Abroad)
- 34.205 Ancient and Medieval Jewish Civilization
- 51.230 Changing Views of the Universe
- 60.210 European Philosophy and the American Experiment
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought
- 73.225 American Legal Culture

61.105 The Religious Heritage of the West

- 02.230 Tribal Traditions
- 07.205 Art of the Renaissance
- 29.200 Italian Civilization (Study Abroad)
- 34.210 Voices of Modern Jewish Literature
- 61.220 Religious Thought

73.110 Western Legal Tradition

- 29.205 American Encounters: 1492–1865
- 34.205 Ancient and Medieval Jewish Civilization
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought
- 73.220 Cities and Crime
- 73.225 American Legal Culture

76.150 Women's Voices through Time

- 02.205 American Dreams/American Lives
- 23.235 African American Literature
- 23.265 Literature and Society in Victorian England
- 29.215 Social Forces that Shaped America
- 34.210 Voices of Modern Jewish Literature
- 65.215 The Rise of Critical Social Thought

Curricular Area 3: International and Intercultural Experience

This dimension of the curriculum is designed to create an informed understanding of our interdependent world and to foster greater intercultural awareness and communication. Courses in this area seek to develop an understanding of non-Western cultures and traditions. They also address both timeless and newly emergent issues of international relations and introduce students to cultural diversity and its effects on the interaction of peoples and states.

Course Goals

- understand those habits of thought and feeling that distinguish cultures from one another
- explore comparative and cross-cultural perspectives
- develop analytical skills appropriate to the study of international and intercultural relations
- understand concepts, patterns, and trends that characterize international and intercultural relations
- analyze systematically major issues such as war and peace, global order, distributive justice, and the finite character of the earth's resources

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

03.110 Culture: The Human Mirror

- 03.215 Sex, Gender, and Culture
- 03.230 India: Its Living Traditions
- 33.210 Human Geography: Peoples, Places, and Cultures
- 33.220 Confronting Our Differences/Discovering Our Similarities: Conflict Resolution
- 33.245 The World of Islam
- 37.210 Latin America: History, Art, Literature
- 61.210 Asian and African Religious Traditions
- 65.285 Education for International Development

19.110 The Global Majority

- 33.210 Human Geography: Peoples, Places, and Cultures
- 33.220 Confronting Our Differences/Discovering Our Similarities: Conflict Resolution
- 33.250 Civilizations of Africa
- 65.230 Conflict and Change in Latin America

- 65.235 Women in the Third World
- 65.285 Education for International Development

23.150 Third World Literature

- 03.215 Sex, Gender, and Culture
- 29.250 Civilization and Modernization: Asia
- 33.250 Civilizations of Africa
- 37.210 Latin America: History, Art, Literature
- 65.235 Women in the Third World

29.120 Imperialism and Revolution

- 03.210 Roots of Racism and Interracial Harmony
- 29.225 Russia: Past and Present
- 29.250 Civilization and Modernization: Asia
- 29.260 To Arms: People and Nations at War
- 33.250 Civilizations of Africa
- 53.235 Dynamics of Political Change

33.105 World Politics

- 12.200 The Global Marketplace
- 17.280 Contemporary Media in a Global Society
- 29.225 Russia: Past and Present
- 29.260 To Arms: People and Nations at War
- 33.215 Competition in an Interdependent World
- 33.372 Brussels Seminar (Study Abroad)
- 33.375 Berlin Seminar (Study Abroad)
- 37.200 Russia and the United States
- 53.434 London Semester: British Politics and the European Union (Study Abroad)
- 65.225 Contemporary Arab World

33.110 Beyond Sovereignty

- 03.220 Living in Multicultural Societies
- 12.200 The Global Marketplace
- 33.215 Competition in an Interdependent World
- 33.220 Confronting Our Differences/Discovering Our Similarities: Conflict Resolution
- 33.372 Brussels Seminar (Study Abroad)
- 33.373 Madrid Seminar (Study Abroad)
- 33.375 Berlin Seminar (Study Abroad)
- 53.235 Dynamics of Political Change
- 65.285 Education for International Development

33.140 Cross-Cultural Communication

- 03.210 Roots of Racism and Interracial Harmony
- 03.220 Living in Multicultural Societies
- 12.200 The Global Marketplace
- 33.220 Confronting Our Differences/Discovering Our Similarities: Conflict Resolution
- 33.255 Japan and the United States
- 33.372 Brussels Seminar (Study Abroad)
- 33.374 Buenos Aires Seminar (Study Abroad)
- 37.210 Latin America: History, Art, Literature

53.130 Comparative Politics

- 17.280 Contemporary Media in a Global Society
- 33.215 Competition in an Interdependent World
- 33.255 Japan and the United States
- 33.372 Brussels Seminar (Study Abroad)
- 33.373 Madrid Seminar (Study Abroad)
- 33.374 Buenos Aires Seminar (Study Abroad)
- 33.375 Berlin Seminar (Study Abroad)
- 37.200 Russia and the United States
- 53.235 Dynamics of Political Change

- 53.434 London Semester: British Politics and the European Union (Study Abroad)
- 65.230 Conflict and Change in Latin America

61.185 Forms of the Sacred: Religions of the East

- 03.230 India: Its Living Traditions
- 29.250 Civilization and Modernization: Asia
- 33.245 The World of Islam
- 33.255 Japan and the United States
- 61.210 Asian and African Religious Traditions
- 65.225 Contemporary Arab World

65.110 Views from the Third World

- 03.230 India: Its Living Traditions
- 33.220 Confronting Our Differences/Discovering Our Similarities: Conflict Resolution
- 33.250 Civilizations of Africa
- 33.311 Santiago Seminar (Study Abroad)
- 33.374 Buenos Aires Seminar (Study Abroad)
- 65.225 Contemporary Arab World
- 65.230 Conflict and Change in Latin America
- 65.235 Women in the Third World
- 65.285 Education for International Development

Curricular Area 4: Social Institutions and Behavior

This dimension of the curriculum is designed to broaden understanding of the structures and principles that underlie and sustain political, social, and economic institutions. In addition, students examine the role of the individual in society through sustained analysis of major modes of organization and important theories and models.

Course Goals

- understand and critically analyze concepts, patterns, and issues that affect the organization of societies and the relationship between the individual and the society
- study institutions, systems, and patterns of governance and of economic and social organization that underlie contemporary societies
- critically analyze classic theories of human organization
- discuss the values and ethical issues that underlie social, political, and economic organizations
- examine the formulation of policies and the consequences of different policy options
- analyze distinctive methods of inquiry appropriate to the study of societal institutions and patterns, using quantitative as well as qualitative techniques

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

03.150 Anthropology of American Life

- 02.240 Poverty and Culture
- 29.210 Ethnicity in America
- 65.205 The Family
- 76.225 Gender, Politics, and Power

19.100 Macroeconomics

- 02.240 Poverty and Culture
- 13.200 Personal Finance and Financial Institutions
- 19.200 Microeconomics
- 53.210 Political Power and American Public Policy
- 65.210 Inequality: Class, Race, Ethnicity
- 65.220 Work and Leisure in America

53.110 Politics in the United States

- 17.205 Understanding Mass Media
- 17.275 Dissident Media: Voices from the Underground
- 29.220 Women in America
- 53.210 Political Power and American Public Policy
- 53.215 Civil Rights and Liberties
- 60.225 Ethical Issues in Government, Business and Media
- 65.210 Inequality: Class, Race, Ethnicity
- 76.225 Gender, Politics, and Power

57.105 Psychology: Understanding Human Behavior

- 17.205 Understanding Mass Media
- 57.205 Social Psychology
- 57.215 Abnormal Psychology and Society
- 65.205 The Family
- 73.200 Deprivation of Liberty
- 73.215 Violence and Institutions

65.100 American Society

- 17.205 Understanding Mass Media
- 17.275 Dissident Media: Voices from the Underground
- 21.200 Schools and Society
- 29.210 Ethnicity in America
- 65.210 Inequality: Class, Race, Ethnicity
- 65.220 Work and Leisure in America

65.150 Global Sociology

- 02.240 Poverty and Culture
- 57.205 Social Psychology
- 60.225 Ethical Issues in Government, Business and Media

- 65.210 Inequality: Class, Race, Ethnicity
- 65.220 Work and Leisure in America
- 76.225 Gender, Politics, and Power

73.100 Justice in America

- 17.275 Dissident Media: Voices from the Underground
- 29.220 Women in America
- 53.215 Civil Rights and Liberties
- 57.215 Abnormal Psychology and Society
- 73.200 Deprivation of Liberty
- 73.215 Violence and Institutions
- 76.225 Gender, Politics, and Power

76.125 Gender in Society

- 17.275 Dissident Media: Voices from the Underground
- 29.210 Ethnicity in America
- 29.220 Women in America
- 65.205 The Family
- 65.210 Inequality: Class, Race, Ethnicity
- 76.225 Gender, Politics, and Power

Curricular Area 5: The Natural Sciences

This curricular area provides students with a basic understanding of the natural sciences and an informed understanding of the nature of scientific reasoning, discovery, and invention through a systematic exploration of the basic concepts and practices of biology, chemistry, physics, and experimental psychology.

Course Goals

- understand the makeup and workings of the natural world and the beings living in it
- understand how science works through explicit examination of the historical development and current status of scientific methods, concepts, and principles
- understand how the sciences use successive experimentation to replicate, control variables, explain error, and build explanatory models
- experience scientific experimentation through laboratory exercises
- practice problem-solving using quantification, statistical analysis, and computer data manipulation
- analyze and evaluate the contributions of important scientists
- develop a respect for the finite resources of our planet, responsible use of technology and nuclear power, the limits of humane research, and the fragile wonders of the natural world

Foundation Courses—Students select one 100-level course in the curricular area including a laboratory experience.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

09.100 Great Experiments in Biology

- 09.200 Structure and Function of the Human Body
- 09.220 The Case for Evolution
- 09.240 Oceanography
- 09.250 Living in the Environment
- 15.200 Human Biochemistry and Health
- 15.220 Environmental Resources and Energy
- 57.240 Drugs and Behavior

09.110 General Biology I

- 09.210 General Biology II
- 09.200 Structure and Function of the Human Body
- 09.220 The Case for Evolution
- 09.250 Living in the Environment
- 09.240 Oceanography
- 15.200 Human Biochemistry and Health
- 15.220 Environmental Resources and Energy
- 57.220 The Senses

15.100 The Molecular World

- 09.240 Oceanography
- 09.250 Living in the Environment
- 15.200 Human Biochemistry and Health
- 15.220 Environmental Resources and Energy
- 15.230 Earth Sciences
- 51.220 Astronomy
- 57.240 Drugs and Behavior

15.110 General Chemistry I

- 15.210 General Chemistry II
- 09.240 Oceanography
- 09.250 Living in the Environment
- 15.200 Human Biochemistry and Health
- 15.220 Environmental Resources and Energy
- 15.230 Earth Sciences
- 51.220 Astronomy

51.100 Physics for the Modern World

- 09.240 Oceanography
- 15.220 Environmental Resources and Energy
- 15.230 Earth Sciences
- 51.220 Astronomy
- 57.220 The Senses

51.105 College Physics I

- 51.205 College Physics II
- 09.240 Oceanography
- 15.220 Environmental Resources and Energy

- 15.230 Earth Sciences

- 51.220 Astronomy
- 57.220 The Senses

51.110 University Physics I

- 51.210 University Physics II
- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.220 Astronomy
- 57.220 The Senses

57.115 Experimental Foundations of Psychology

- 09.220 The Case for Evolution
- 15.200 Human Biochemistry and Health
- 51.220 Astronomy
- 57.200 Behavior Principles
- 57.220 The Senses
- 57.240 Drugs and Behavior



Graduate Study

- Admission Requirements
- University Degree Requirements
- Academic Standards and Regulations
- Fields of Study

Admission

The standard deadlines by which applications for graduate study and all supporting documents must be on file in the Office of Graduate Admissions are as follows:

Fall	February 1*
Spring	October 1
Summer	March 1

* Recommended submission date for fall admission. Applications will receive consideration up to June 1 unless otherwise stipulated. International applicants must apply by February 1.

Application to graduate school is self-managed. This means applicants assemble all of the admission components (application, recommendations in sealed envelopes, and official academic transcripts in sealed envelopes) and mail them in the large mailing envelope enclosed in the application booklet to the Office of Graduate Admissions. *Attendance at all institutions must be reported whether or not credit was earned.* Failure to report all previous academic work (undergraduate and graduate) will be considered sufficient cause for rejection of an application or for dismissal from the university.

Graduate applicants are also responsible for ensuring that any required test scores be sent directly from the testing service to the Office of Graduate Admissions.

Since graduate programs are highly individualized, applicants are encouraged to schedule an appointment with the academic adviser in the appropriate teaching unit.

The applicant is required to submit the application and forms, with a nonrefundable application fee of \$50. Applications may be requested by telephone (202) 885-6000; e-mail: afa@american.edu; or www.american.edu.

Notice of Admission

The Office of Graduate Admissions will send the application and supporting documents to the appropriate academic unit for review. Departments usually make a decision within four to six weeks, however, some departmental procedures take longer. Students should consult the department to which they are applying if they have questions about admission decisions.

Admission Requirements

The minimum university admission requirements for graduate study are outlined below. Please refer to the appropriate college, school, and department sections of this publication for any additional requirements.

1. A bachelor's degree earned at an accredited college or university.
2. A 3.00 cumulative grade point average (on a 4.00 scale), in an undergraduate program, calculated on the last 60 credit hours of course work completed and presented at the time of application for admission.
3. Maintenance of a cumulative grade point average of at least 3.00 (on a 4.00 scale) in all relevant graduate work for which a grade has been awarded.
4. An applicant for graduate study may be admitted without reference to the undergraduate average if the applicant has maintained on a 4.00 scale either a 3.30 cumulative grade point average in a master's degree program completed at an accredited institution, or a 3.50 cumulative grade point average in the last 12 credit hours of a master's or doctoral degree program still in progress at such an institution at the time the application is evaluated, or in graduate work taken in nondegree status at American University and applicable to the degree program being applied for.
5. An applicant for graduate study may be admitted without a bachelor's degree earned at an accredited college or university or without reference to the undergraduate average provided that he or she is a midcareer person from government or the private sector who has not attended school full-time for at least eight years and is applying for admission to a professional master's degree program. This exception must be justified by an evaluation of the applicant's work performance and his or her organization's recommendation.

Provisional Standing

Each college, school, or department of the university may admit to provisional standing a limited number of students who do not meet the minimum standards of either the university or the teaching unit. By the end of one full semester of full-time study or after the first 12 credit hours of part-time study, the student will be evaluated by the college, school, or department. Continuation in the graduate program will be permitted on favorable appraisal of the student's performance.

The provisional admission status of a graduate student who does not give satisfactory evidence of capability will be withdrawn. This constitutes dismissal of the student.

Transfer of Credit

The university is liberal in accepting credit earned in the past. Nonetheless, a student who has not been engaged in formal study for a number of years or whose study has been intermittent, at American University or elsewhere, must understand that full credit will not necessarily be granted for past work simply because it is a matter of record.

The evaluation of graduate work completed elsewhere by an entering graduate student, in terms of its applicability to the program at American University, will be made by the office of the dean or department chair concerned no later than the completion of 12 credit hours of course work.

Up to 6 credit hours earned at another institution may be applied to a master's degree. Up to 36 credit hours earned at another institution may be applied to a doctorate, including 30 credit hours for a master's degree earned at another institution and 6 credit hours beyond the master's degree.

For transfer credit, individual courses (that is, courses not part of a completed master's program) must have been completed with grades of B or better and must have been completed within seven years of the beginning of the semester for which the student is admitted to degree status at American University.

In no case may graduate credit be given for course work designated as undergraduate by the offering institution.

In all cases students are required to meet the residency requirements established by the university and any further residency

requirements which may be stipulated for each program by the individual departments. See also Credit Hour and Residence Requirements, below, or consult the individual department for further details.

Admission from Nondegree Status

Students who have not been denied admission to a degree program within the preceding year may enroll in nondegree status at American University. (For more information, see the Nondegree Study chapter.) A student registered in nondegree status who later establishes eligibility for admission to graduate degree status may apply a total of no more than 12 credit hours of graduate work completed while in nondegree status toward meeting the requirements for a graduate degree, provided the courses were completed within seven years of the beginning of the semester for which the student is admitted to degree status. To be considered for admission to degree status at the graduate level, a nondegree student must have maintained a grade point average of at least 3.00 (B) on a 4.00 scale in all graduate-level work.

There is no guarantee that a nondegree student will be accepted into a degree program.

Students admitted to degree status ordinarily may not thereafter register as nondegree students until they have successfully completed their degree requirements.

Readmission

After expiration of the time limit for completion of a graduate degree program, readmission may be granted once for a period of three years (less any time given in previous extensions of candidacy), subject to the requirements of the particular degree in effect at the time of readmission, and may involve taking additional courses or other work or both. When a student is readmitted under these circumstances, the length of time that the student will be given to complete degree requirements and any additional courses, examinations, or other requirements which are deemed necessary by the teaching unit will be specified. Students applying for graduate readmission must pay a fee of \$50.

University Degree Requirements

It is university policy that no student shall be involuntarily subjected to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or loss of academic credits earned to satisfy the requirements previously in effect.

Graduate students are governed by the following minimum requirements for the graduate degree (each teaching unit may have further requirements). Graduate students are advised to consult their own adviser, department chair, or dean for detailed information.

Credit Hour and Residence Requirements

Master's Degrees

At least 30 credit hours of graduate work including (a) no less than 3 and no more than 6 credit hours of research resulting in a thesis (thesis option) or (b) 6 credit hours of graduate work with grades of B or better involving a case study, an in-service project, an original creative work, specified research courses, or such other effort as the academic unit may designate (nonthesis option).

At least 24 of these hours, including the thesis or nonthesis option, must be completed in residence at American University. Up to 12 credit hours taken in nondegree status at American University may be counted toward the degree, or up to 18 credit hours if earned in a completed graduate certificate program.

Doctoral Degrees

For students admitted to graduate work at American University without a previously earned master's degree, the requirement is 72 credit hours of graduate study including no fewer than 6 and no more than 24 hours of directed study on the dissertation. At least 42 of these hours, including the research requirement, must be completed in residence at American University. Up to 12 credit hours taken in nondegree status at American University may be counted toward the degree, or up to 18 hours if earned in a completed certificate program. Course credit earned toward a master's degree at American University may, if relevant, be counted toward the Ph.D. degree.

For students admitted with a master's degree earned previously, the requirement is at least 42 credit hours of additional graduate work, of which 36 hours, including the research requirement, must be completed in residence at American University.

Prerequisite Undergraduate Credit

Credit earned in undergraduate courses taken as required prerequisites for other courses by graduate students may not be counted toward satisfying the total credit requirement for a graduate degree, and grades earned in such courses are not used in calculating the student's grade point average.

Graduate-Undergraduate Courses

Graduate students may take graduate-level courses that meet with undergraduate-level courses. However, no more than 50 percent of course work taken in residence (not counting thesis or dissertation seminars without regular meetings) may be taken in joint graduate-undergraduate courses.

Transfer of Credit from One American University Advanced Degree to Another

A student may transfer 6 credit hours from one master's degree earned at American University to another master's degree to be completed at American University. A student pursuing a second doctoral degree at American University may transfer a total of 36 credit hours from one doctoral degree to another. However, the student must complete an additional 36 credit hours of graduate work in residence in that new doctoral degree program.

Grade Requirements

Students enrolled in a graduate program must maintain a cumulative grade point average of at least 3.00 (on a 4.00 scale) in order to remain in good standing and to graduate. The calculation of the graduate cumulative grade point average is specific to the program in which a student is enrolled. Only graduate-level American University courses that are accepted by the degree-conferring teaching unit as fulfilling degree requirements are included in the cumulative grade point average.

Minimum Grades

No degree credit is earned by a graduate student for any grade lower than C (2.00 on a 4.00 scale) received in a graduate-level course. However, grades lower than C are used in calculating the grade point average.

Tools of Research

Each academic unit specifies the tool of research requirement. Tools should relate to research in the student's discipline. The student's satisfaction of tool requirements is certified by the teaching unit, but aid in ascertaining this may be sought outside the unit.

Advancement to Candidacy

Each academic unit may at its discretion require a formal advancement to candidacy and determine the nature of the advancement procedure it will use.

Examinations

Master's Degrees

At least one comprehensive examination, the nature and scope of which are determined by the academic unit, is required.

An oral examination on the thesis may be required by the academic unit.

Doctoral Degrees

At least four comprehensive examinations are required, at least one of which must be oral. At least two of the comprehensive examinations must be written and must be taken within one year following the completion of the residence requirement. A qualifying examination and master's comprehensive examination, if taken at American University, may, at the discretion of the academic unit, be credited toward the comprehensive requirements for a doctoral degree. Comprehensive examinations given by other institutions will not be credited toward the satisfaction of degree requirements.

An oral examination on the dissertation is also required.

Examination Timetable

For both master's and doctoral degree students, the dean or department chair (or designated representative) determines the time and eligibility for taking the comprehensive, tool, and (where required) oral examinations.

Application to take comprehensive examinations is made to the academic unit on a standard form available from that office. After approval is obtained, the student pays the appropriate fee at the Office of Student Accounts. In most cases, students should plan to apply during the first week of classes of the semester in which they plan to take the examinations.

Examination Fields

Each college, school, or department offers its current list of standard comprehensive examination fields, including certain "core" fields and areas in which candidates in particular degree programs must present themselves for examination. In some disciplines it may be possible to choose an available field outside the major area of study.

Examination Grading

Usually each comprehensive written examination is read by two readers and is rated "distinction," "satisfactory," or "unsatisfactory" by each. In order to pass the examination, the candidate must obtain at least "satisfactory" from both readers in each of the examination fields. In the event of a disagreement in the ratings between readers as to whether or not the candidate should pass, a third reader is appointed to break the deadlock. Each dean or department chair may, however, elect to determine a different system of grading comprehensive examinations. Students should consult the specific college, school, or department to ascertain what system is used.

Re-examination

Comprehensive Examination: A student who fails a comprehensive examination (other than a qualifying examination) may be permitted additional attempts within two years. The nature and extent of the examination to be retaken and the number of retakes allowed will be determined by the academic unit. Teaching units may establish their own rules for retaking qualifying examinations.

Thesis and Dissertation Oral Examinations: In the event of failure to complete the oral examination satisfactorily, the academic unit may, at its discretion, permit one retake.

Theses and Dissertations

Thesis and Nonthesis Options

For master's candidates, the thesis is expected to demonstrate the student's capacity to do original, independent research. Some colleges, schools, and departments offer the opportunity to substitute a case study, an in-service project, an original creative work, or specific advanced research courses in lieu of a thesis. In each such case, the thesis seminar or other accepted alternative must be considered part of the residence requirement for the master's degree and must meet the standards of the individual college, school, and department as well as those of the university.

No academic credit is given for the master's thesis unless the student registers for the thesis seminar. However, a student should not enroll for this seminar until ready to start work on the formal thesis proposal or the thesis itself. Traditionally, an advisory committee is appointed for each candidate working on a thesis. The committee may be composed of no fewer than two members, at least one of whom must be a member of the full-time faculty. An oral examination by this committee is often required. Suggestions for revision may be made as conditions that must be met before members will sign the title page of the thesis. If the chair of the thesis committee or the department chair certifies failure to complete a satisfactory thesis, the student may be dismissed from the university.

A student who writes a thesis must adhere to the required form and content for the proposal and to the other procedures described in detail in the published guides that may be obtained from the office of the dean of the college or school.

Students electing the nonthesis option should consult the individual program descriptions in this publication and obtain specific departmental requirements from their teaching units. The university minimum requirement is two research-oriented courses. These courses must be completed with grades of B or better.

Dissertation

Capping the requirements for the doctorate is the dissertation, together with the required oral examination of the dissertation by the student's teaching unit. Normally, the candidate must have completed all other academic requirements for the degree before the oral examination can be held.

A candidate who is declared ready to proceed to the dissertation must submit a dissertation topic proposal reporting the results of preliminary research. This proposal should contain, among other things, a concise statement of the major problem of research and of related supporting problems, the data to be used, a selected bibliography, a statement of the probable value or importance of the study, a brief description of the methods to be used, and a preliminary outline of the dissertation in some detail.

After approval of the proposal by the candidate's adviser, it is presented to the dean of the college or school for final approval.

Acceptance of the proposal indicates that the topic is a suitable one and that the dissertation will be accepted if developed adequately by the candidate. The university will take responsibility for directing research only in fields and problem areas that its faculty members feel competent to handle. Acceptance of a dissertation topic proposal under no circumstance commits any department or school or the university to accept the dissertation itself.

A dissertation advisory committee of three to five persons is usually appointed by the candidate's academic dean for each candidate undertaking a dissertation. After the draft manuscript has received the tentative approval of all members of the committee, the committee chair arranges for the oral examination. This covers the dissertation itself and the general field of study. Conditions to be met before final acceptance of the dissertation may be specified without necessarily holding a second oral examination.

Protection of Human Subjects

Any proposed thesis or dissertation in which research will involve experimenting on, interviewing, surveying, or observing human beings is subject to review under American University regulations to determine whether the researcher has made adequate provision for the protection of human subjects. The American University regulations are based on 45 Code of Federal Regulations (CFR) 46, "Protection of Human Subjects."

Candidates who request outside funding for research have their proposals reviewed by the University Institutional Review Board (IRB). If no outside funding is involved, the teaching unit IRB designee conducts the review and submits a report for IRB records. Each candidate is requested to complete the American University Institutional Review Board form, "Research Proposal Review." It is the responsibility of the degree candidate to submit the form for review and to make any revisions required to the research plan to bring it into compliance.

Copies of the university's regulations, 45 CFR 46, the review form, and additional information are available from the teaching

unit chair or IRB designee for human subject review, or from the Compliance Administrator in the Office of Research Services.

Thesis or Dissertation Progress

It is the collective responsibility of the student, the student's adviser, and the student's committee to ensure that satisfactory progress is being made on the student's thesis or dissertation. The student may request, at least once each semester, that the committee meet with him or her to discuss progress.

Final Manuscript

Candidates are responsible for being familiar with and complying with the regulations concerning the form and preparation of the final manuscript, abstract, copyright, and so forth, which may be obtained from the dean or department chair of the teaching unit offering the doctorate. Certain deadline dates are found in the *Schedule of Classes* published for each academic term. These must be met if a candidate expects to receive a degree at the appropriate commencement.

Filing of Thesis or Dissertation

On completion of the final manuscript, a student obtains the signature of the department chair and dean on the Thesis/Dissertation Completion form, and takes the form and the manuscript to the Office of Student Accounts to pay the fee. This fee is required for entering into the mandatory agreement with University Microfilms. Every thesis and dissertation must be microfilmed. The student then proceeds to the Office of the Registrar for certification of the completion of degree requirements, and then to the library for filing of the manuscript. This procedure is to be followed after all other requirements for the degree have been satisfied.

Publishation

It is the policy of the university to encourage publication of dissertations, case studies, and theses, with acknowledgment to the university. If substantial alterations are made before publication, this fact must be noted in the prefatory statement that gives acknowledgment.

Academic Standards and Regulations

Academic Advising

American University considers academic advising an essential element of the educational process. The various advising resources at the university are available to help students define the choices they must make and to give any needed guidance. Students with academic concerns may seek assistance from course professors, faculty and professional advisers, peer advisers, department chairs, deans, and various student support services throughout the university.

American University requires adviser-student conferences at least once a semester. The student, however, bears the ultimate responsibility for selecting courses, meeting course prerequisites, and adhering to policies and procedures. An adviser assists the

student in order to ensure a well-balanced education and interpret university policies and procedures.

Academic Probation and Dismissal

A graduate student who fails to maintain a 3.00 grade point average (on a 4.00 scale) after completion of the first 12 credit hours of graduate study may be placed on academic probation for one semester, after which the student must achieve and maintain a 3.00 average or be dismissed. A graduate student may be placed on academic probation only once. It should be noted that the grade point average is only one measure of academic performance. Maintenance of the required average does not necessarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance

is judged unsatisfactory even though the student has maintained the required grade point average. A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

Academic Load and Full-Time Status

The normal load of full-time graduate study is 9 to 12 credit hours a semester; however, an academic unit may declare circumstances under which full-time involvement in thesis or dissertation research constitutes full-time standing.

In summer sessions, because of the combination of six-week and seven-week sessions, there are various possibilities for full-time standing. Usually, registration for 6 credit hours during any session is considered full-time.

Maintaining Matriculation

Students whose degree requirements have not been completed and who have not been granted a leave of absence must register each fall and spring semester during regular registration periods for courses, for thesis or dissertation seminars, or for maintaining matriculation. Those who do not will be considered as having withdrawn. Such students may then reapply and, if readmitted, are governed by requirements and regulations in effect at the time of readmission.

Students who change degree objective, college, or school, whose candidacy for an advanced degree expires, or who choose to conform to new regulations or requirements must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

Statute of Limitations

Candidates for a master's degree must complete all degree requirements no later than three years after the date of first enrollment in the degree program. Candidates for the doctoral degree must complete all degree requirements no later than five years after the date of first enrollment in the doctoral program, or seven years if the doctoral program was entered directly from a bachelor's degree.

A student may petition for an extension of candidacy in a degree program for a limited period if such extension is sought before these time limits expire. In no case may the total amount of time granted in extensions of candidacy exceed three years. If, however, the time limit has expired, a student may seek readmission to the university for a period of no more than three years, less any time granted in previous extensions of candidacy.

Readmission to an advanced degree program may involve completing additional courses or other appropriate work. Any degree calling for additional undergraduate prerequisite courses has the statute of limitations extended for the amount of time required to complete them.

All But Dissertation Master's

Students who enter a doctoral program without a master's degree may be awarded the appropriate master's degree by American University in the field in which their doctoral work is

being done when they have completed all requirements for the doctorate except the dissertation.

Leave of Absence

If a student is unable to pursue course work or to work with faculty for a fall or spring semester, the dean of the student's teaching unit may authorize a leave of absence for one or two semesters, during which the student's enrollment status in the degree program would be maintained. During a leave of absence, the student is not entitled to use the services of the university. Time limitations for completing graduate degrees continue to apply during periods when students are on leaves of absence. Students may petition for an extension of candidacy at the time they apply for a leave or at a later time. Procedures for granting leaves of absence may vary among schools and colleges.

A graduate student taking a leave of absence because of military or government assignment required as a direct result of hostilities or war, or for incarceration resulting from refusal to accept induction under such circumstances, may receive a tuition refund and have other charges prorated on the basis of the number of weeks during which the student was registered for classes in a given semester. If a student has completed at least ten weeks of a session, he or she may be given full credit for any course, subject to the approval of the instructor and department chair. Additional work may be required. No tuition refund will be given for courses for which credit was given. A student whose studies are interrupted for the reasons stated above may resume study at American University in the same degree program, provided he or she returns within a period of six months following the completion of duties and provided that the degree program in which the student was enrolled is still offered. A student who wishes to be enrolled in a different degree program must apply for readmission.

Changes in Field of Study

A graduate student who wishes to change field of study or school affiliation may request an approval of the change on the appropriate form available in the Office of the Registrar. A graduate student who wishes to change colleges must apply through the Office of Graduate Affairs and Admissions. A student who changes field of study may lose credit already earned in other study that is not appropriate to the new program.

Study at Another Institution

A graduate student, with the advice and counsel of the student's academic unit, may be able to take a graduate course available only at a nonconsortium institution. The student must secure advance approval in writing from his or her adviser and dean for specific courses. The student must conform to regulations governing the maintenance of matriculation at American University during each fall and spring semester, and must satisfy the residence requirement of the university.

Grades for transferred courses are not recorded on the American University permanent record or computed in the student's grade point average.

Fields of Study

Graduate Degree Programs

Accounting (M.S.)	International Legal Studies (LL.M.)
Anthropology (M.A., Ph.D.)	International Peace and Conflict Resolution (M.A.)
Anthropology, Applied (M.A.)	International Relations (Ph.D.)
Art History (M.A.)	International Service (M.I.S.)
Business Administration (M.B.A.)	Justice, Law & Society (M.S.)
Biology (M.A., M.S.)	Law (J.D.)
Chemistry (M.S., Ph.D.)	Law and Business Administration (J.D. & M.B.A.)
Communication: Journalism and Public Affairs (M.A.)	Law and International Affairs (J.D. & M.A.)
Communication: Producing for Film and Video (M.A.)	Law and Justice, Law and Society (J.D. & M.S.)
Communication: Public Communication (M.A.)	Literature (M.A.)
Computer Science (M.S.)	Mathematics (M.A.)
Creative Writing (M.F.A.)	Mathematics, Applied (M.A.)
Development Banking (M.A.)	Mathematics Education (Ph.D.)
Development Management (M.S.)	Organization Development (M.S.O.D.)
Economics (M.A., Ph.D.)	Painting (M.F.A.)
Education (Ph.D.)	Performing Arts: Arts Management (M.A.)
Education: Educational Leadership (M.A.)	Performing Arts: Dance (M.A.)
Education: Special Education: Learning Disabilities (M.A.)	Personnel and Human Resource Management (M.S.)
Education: Specialized Studies (M.A.)	Philosophy (M.A.)
Education, Elementary (M.A.T.)	Philosophy and Social Policy (M.A.)
Education, Secondary (M.A.T.)	Physics (M.S., Ph.D.)
English for Speakers of Other Languages (M.A.T.)	Political Science (M.A., Ph.D.)
Environmental Policy (M.A.)	Printmaking (M.F.A.)
Environmental Science (M.S.)	Psychology (M.A., Ph.D.)
Financial Economics for Public Policy (M.A.)	Public Administration (M.P.A., Ph.D.)
Film and Video (M.A.)	Public Policy (M.P.P.)
Finance (M.S.)	Russian Studies (M.A.)
French Studies (M.A.)	Sculpture (M.F.A.)
Health Fitness Management (M.S.)	Sociology (M.A., Ph.D.)
History (M.A., Ph.D.)	Sociology, Applied (M.A.)
Information Systems (M.S.)	Sociology: International Training and Education (M.A.)
Interdisciplinary Studies (M.A., M.S.)	Sociology: Justice (Ph.D.)
International Affairs: Comparative and Regional Studies (M.A.)	Spanish: Latin American Studies (M.A.)
International Affairs: International Economic Policy (M.A.)	Statistical Computing (M.S.)
International Affairs: International Politics (M.A.)	Statistics (M.S., Ph.D.)
International Affairs: U.S. Foreign Policy (M.A.)	Statistics for Policy Analysis (M.S.)
International Affairs and Business Administration (M.A./M.B.A.)	Taxation (M.S.)
International Communication (M.A.)	Teaching English to Speakers of Other Languages (M.A.)
International Development (M.A.)	Toxicology (M.S.)



Nondegree Study

- Enrollment Criteria
- Registration
- Academic Standards

Nondegree status is the designation used for students who are enrolled in credit courses at American University and are not currently pursuing a degree program. Many students begin their studies in nondegree status and apply the credit they have earned toward a degree program in one of the schools or colleges of the university.

The Special Programs Advising Center (SPAC) provides academic counseling and registration support for all nondegree students and students in certificate programs. The center also handles registration for noncredit workshops and seminars. SPAC is located in McKinley Building 153. For information call (202) 885-2500.

Enrollment Criteria

Nondegree students may enroll in any university course for which they have the necessary academic background and qualifications.

Undergraduate-level courses are open to high school graduates; students in good standing at other accredited colleges and universities; students with an undergraduate degree; and high-school students who have a B average and the recommendation of their high school counselor or principal.

Graduate-level courses are open to students who have completed a bachelor's degree.

The following students ordinarily may not register in non-degree status:

- Students currently enrolled as undergraduate- or graduate-degree students in any of the member institutions of the Consortium of Universities of the Washington Metropolitan Area;
- American University students who have not completed their degree programs;
- Students who have been dismissed from American University or another college or university within the previous twelve months;

Registration

Nondegree students register for courses through the Special Programs Advising Center. Information on university degree programs, certificate programs, and courses is available at the Advising Center, which is staffed with experienced academic advisers who are familiar with the particular needs of part-time and adult students. The center is open throughout the year and holds evening hours.

Students planning to transfer academic credit from another institution into an undergraduate degree program should consult with an academic adviser before their first nondegree registration and should bring with them all transcripts of previous college work.

Special Departmental Requirements

Kogod College of Business Administration: To register for undergraduate courses at Kogod College, students must be able to demonstrate that prerequisites have been met. If prerequisites have been completed at a college/university other than American University, students must provide copies of appropriate transcripts. In general, registration for graduate level courses at Kogod College is limited to degree students. However, in certain cases exceptions are made for students with satisfactory GMAT scores and satisfactory grade point averages in the last 60 hours of undergraduate work. Please call the Kogod College graduate advising office at (202) 885-1900 for more information.

Note: Departmental approval must be obtained for all business administration courses.

School of Communication: To register for undergraduate communication courses, students must obtain permission from the School of Communication. The SOC undergraduate office phone number is (202) 885-2060.

Special procedures apply for students who wish to register for graduate communication courses. Certain courses are open to nondegree students on a space-available basis only. Public Communication and Film and Video courses require a special application which can be obtained by calling the Advising Center at (202) 885-2500. To obtain special permission for other graduate courses call the School of Communication graduate office at (202) 885-2078.

School of International Service: Departmental approval must be obtained for all courses at the 500, 600 and 700 level.

Other: Departmental approval must be obtained for all courses at the 600 or 700 level and for all courses in Applied Music and the English Language Institute.

International Students

Special regulations apply for students who are not citizens or permanent residents of the United States of America. (For more information, see the International Student Information chapter in this catalog.) International students are advised to request information on enrollment policies from the Special Programs Advising Center, (202) 885-2500.

Academic Standards

Nondegree students are held to the same academic standards as degree students. Undergraduate students must maintain a 2.00 (C) grade point average; graduate students must maintain a 3.00 (B) grade point average.

Transferring from Nondegree to Degree Status

Undergraduate students may apply up to 30 credit hours taken in nondegree status toward an undergraduate degree program.

Graduate students may apply up to 12 credit hours of graduate-level courses taken in nondegree status toward a graduate degree program or up to 18 hours if earned in a completed certificate program.

To apply to a degree program students must submit the appropriate application forms and supporting documents.



International Student Information

- Admission
- Visa Requirements
- Registration
- English Language Requirements

The following regulations apply to all students who are not citizens or "permanent residents" of the United States of America.

Degree Admission

Undergraduate

First time in college: Submit to the Undergraduate Admissions Office by the application deadline: 1) a completed application form, 2) a 300-500 word essay, 3) official transcripts or certified copies of course work completed from all secondary schools attended, 4) a secondary school report form, 5) two letters of recommendation, and 6) a nonrefundable U.S. \$45 application fee payable, by check, to American University. International undergraduate applicants may apply as Early Decision candidates.

Undergraduate transfers: Submit to the Undergraduate Admissions Office by the application deadline: 1) a completed application form; 2) a nonrefundable U.S. \$45 application fee payable, by check, to American University, and 3) official transcripts or certified copies of course work completed at the university level.

Graduate

Application to graduate school is self-managed. This means applicants assemble all the following admission components and send to the Graduate Admissions Office by the application deadline: 1) completed application for graduate admission, 2) recommendations in sealed envelopes, 3) a Statement of Purpose, 4) official transcripts from all undergraduate and graduate institutions in sealed envelopes, and 5) a nonrefundable U.S. \$50 application fee payable, by check, to American University.

Applicants must request the Educational Testing Service (ETS) to send an official copy of required test scores to American University (CEEB number 5007).

Note: Photostat or faxed copies of documents are not accepted for evaluation purposes.

Nonimmigrant Student Visa Procedures

To expedite an international student's application for F1 or J1 nonimmigrant or exchange visitor student status, it is advisable that the Personal Immigration and Information Request Form (PIIRF) and appropriate supporting documents be completed and submitted with the application. To obtain a student visa, applicants should contact the nearest U.S. Consulate for information on application requirements, procedures, and processing time.

Nondegree Enrollment

All international nondegree students must begin their registration in the Special Programs Advising Center (SPAC) and must present evidence of successful completion of high school (or equivalent) and courses taken in any colleges or universities attended. Nondegree international students should present translated documents for evaluation and counseling purposes. These documents remain in the student's file in the Advising Center. International students in nondegree status must request that official documents be sent to the Undergraduate or Graduate Admissions Office when they apply for admission to a degree program.

Visa Requirements

Students in nonimmigrant F1 and J1 status are required by U.S. Immigration and Naturalization Service (INS) regulations to maintain a full-time course load enrollment during fall and spring semesters. If the student's first term is a summer session, the full-time course load requirement will apply for that summer. It is the individual student's responsibility to comply with INS regulations.

To meet the INS full-time course load requirement at American University each semester, undergraduate students are required to register for a minimum of 12 credit hours, graduate students for a minimum of 9 credit hours, and LL.M. law students for a minimum of 8 credit hours.

International students enrolled only for English as a second language must register for 18 English Language Institute (ELI)

contact hours each semester (consult with ELI for specifics). Any change in registration which results in a course load below these minimum requirements must be authorized by the Office of International-Intercultural Student Services (ISS) in consultation with the student's academic adviser.

Students in F1 or J1 status who fail to meet these requirements are considered by INS to be "out-of-status" and lose their eligibility for all immigration benefits including on-campus employment and practical training and are subject to deportation.

All students in F1 nonimmigrant status are required to attend, initially, the educational institution which issued the Certificate of Eligibility (I-20) used to obtain F1 status.

A student in F1 or J1 status is reminded that a change of school from one U.S. educational institution to another or a change of program within the same educational institution must be made according to INS regulations. At American University such changes are handled through ISS.

Students in Exchange Visitor (J1) status requesting a transfer to American University should consult with ISS before registering for classes. Transfer from one exchange visitor program to another requires a release from the previous program sponsor and/or the approval of the INS. It is advisable that all students entering the university in J1 status at the time of admission consult with ISS before registering for classes.

Questions concerning INS regulations governing foreign students, exchange visitors, or foreign researchers or faculty should be directed to the Office of International-Intercultural Student Services (ISS), Butler Pavilion 408, telephone: (202) 885-3350, fax: (202) 885-3354. Regular office hours are Monday through Friday, 9:00 a.m. to 5:00 p.m.; extended hours are followed during periods noted in the *Schedule of Classes* as "Extended Hours" and "Late Registration."

Registration Procedures

In addition to the normal registration instructions, the following regulations apply to international students.

1. All international students who are enrolling at American University for the first time or for a new program and are not citizens or permanent residents of the United States are required to obtain the signature of an international student adviser at the time of registration for courses. Students need to bring to ISS their passport, I-94, I-20, or IAP-66 (if applicable), along with their Advisement/Registration Authorization form, academic recommendation of the English Language Institute, or admission letter stating language waiver. Consult with ISS regarding special group registration.

Note: Returning international students are not required to obtain an international student adviser's signature to register unless they are beginning a new program, or are registering for an internship or cooperative education field experience. International students with F1 visas or American University sponsored J1 visas who register for

less than a full course of study should first consult with an international student adviser.

2. New international students, whether degree or nondegree, must take an English language proficiency test before they register. (See English Language Requirement, below.)
3. International students may take courses in the university's off-campus program; however, they must complete their registration on campus.
4. All new nondegree international students should begin their registration in the Special Programs Advising Center at least five working days before the end of registration. Failure to do so may cause the new nondegree international student to be registered during the period of late registration and therefore to be subject to the late registration fee. Students must present translated copies of their previous academic records in order to enroll.

English Language Requirements

All students whose first language is not English are required to have their English proficiency evaluated by the English Language Institute (ELI) before enrolling in courses at American University. In most cases they will have to take a written proficiency examination lasting about three hours. Exceptions (waivers) to this requirement are granted for students who submit a score of 600 or higher on the Test of English as a Foreign Language (TOEFL) and undergraduates who submit a score of 580 (recentered) or higher on the Scholastic Assessment Test (SAT) I Verbal section. Students who have graduated from a regionally accredited U.S. college or university with a bachelor's, master's, or doctoral degree may also be considered for waiver from English placement testing. Waivers may also be granted in cases which meet certain specified criteria. Consult ELI for these criteria. A decision by the English Language Institute (ELI) that a student needs improved English language skills is binding and not negotiable by the student. Students who are required to attend ELI courses are obligated to show good class attendance and make an earnest effort to improve their language proficiency as soon as possible.

Students who must enroll in a full-time English program (four courses) may not take any other courses during that semester. Exceptions require the permission of ELI and the academic adviser for the program in which the course is offered.

Students who are enrolled full-time in the university certificate program in English as a second language but need only three courses because of their level of English proficiency may take a university course for credit without an additional tuition charge. For further information about the certificate program, consult the English Language Institute, McKinley Building 206, (202) 885-2147.

English Language Institute

International students wishing to enroll in the English Language Institute (ELI), either full or part time, must have completed the equivalent of an American high school education at the time of enrollment. Students in F1 status must enroll as full-time students. Students who are applying only for admission to the English Language Institute for English need not take the TOEFL. After filing an application and academic transcripts, students who are accepted will be sent a formal letter of acceptance. If the student plans to attend the university with an F-1 student visa, a Certificate of Eligibility (Form I-20) for a nonimmigrant student visa will be sent with the letter of acceptance provided the student has appropriately completed the Verification of Financial Capability portion of the ELI application and submitted appropriate financial documentation.

Students enrolled in four ELI courses are considered full-time students for visa and some scholarship requirements even though courses do not carry credit toward a degree.

Information and course dates can be obtained from the English Language Institute, American University, Washington, DC 20016; telephone (202) 885-2147. For more information, see the International and Special Programs chapter.

Health Insurance

Health insurance is mandatory for all full-time degree, resident, and international students (except those in A, G, and H status). Students are automatically billed for a university-sponsored plan when they enroll. If a student is covered by a similar plan paid for by their family, employer, sponsor, or government, the student may waive the university coverage by completing the university insurance waiver form. Waiver forms are included as part of the university's billing statement or may be obtained from the Student Health Center. An insurance waiver must be filed each academic year prior to the deadline for waiving the university-sponsored insurance.



Tuition, Expenses, and Financial Aid

- Tuition and Fees
- Undergraduate Scholarships
- Graduate Financial Aid
- Veteran's Benefits

Undergraduate students who register for 12 to 17 credit hours are assessed tuition at the full-time rate. Undergraduate students who register for fewer than 12 credit hours are assessed tuition based on the number of credit hours taken. Undergraduate students who register for more than 17 credit hours are charged the full-time tuition rate with an additional charge for each credit hour over seventeen.

Graduate and nondegree students are assessed tuition per credit hour.

The off-campus tuition rate differs from the rate for on-campus courses. Full-time undergraduate students, however, who register for courses both on and off campus are assessed tuition at the on-campus full-time rate.

Given the probable continuation of current economic conditions, as well as the need to continue to accelerate the academic development of the university, it is reasonable to expect that tuition and fee increases will be required each year in the near future. The university will attempt, however, to limit tuition and fee increases to reasonable levels.

Tuition

Undergraduate Students

Full-time (12-17 credit hours)	\$9,150
Part-time (per credit hour)	610

Graduate Students

(per credit hour)	655
MBA and MA/MBA Program	
Full-time	
from 9 to 13 credit hours	707
from 13.5 credit hours(per semester)	\$9,540*
Part-time (fewer than 9 credit hours)	687

* Students who matriculate for full-time study in the fall 1997 MBA program will pay this same rate for four consecutive semesters.

Law Students

Full-time (12-17 credit hours)	10,777
Part-time (per credit hour)	799

Nondegree Students

Course level .100-.400	610
Course level .500 and above	655

Auditors pay the same charges as students enrolled for credit and are subject to all applicable special fees.

Charges for institutes and other special courses are listed in the *Schedule of Classes* published each academic term.

Residence Hall Charges

Residence charges are for each semester.

Anderson, Hughes, Leonard, Letts, and McDowell Halls; Congressional, Capital, and Federal Halls (Tenley Campus):

Single Occupancy	\$2,913
Single Occupancy with bath (Tenley)	3,406
Double Occupancy	2,320
Triple Occupancy	1,691

Centennial Hall

Single Occupancy	3,406
Double Occupancy	2,320

Residence Hall Association Fee

10
(For each semester; optional: waived only on submission of a waiver form to the Office of Residential Life before the end of the first week of classes. Once paid, this fee is nonrefundable.)

Off-Campus Graduate/Law Student Housing

Glover-Tunlaw Apartments

Units leased on an annual basis at the following monthly rates:

One Bedroom Unit	\$750
Two Bedroom Unit	1000

Meal Plan Charges

Main Campus (Charges are by contract per semester.)

Carte Blanche Plus \$25	\$1,350
Carte Blanche Plus \$150	1,405
14 Meals Plus \$255	1,355
10 Meals Plus \$275	1,280
10 Meals "Straight Up"	1,080

Resident freshmen are required to be on one of the above meal plans. If freshmen do not enroll in a meal plan in the first ten days of the semester (this includes weekends and holidays), an automatic enrollment in the 14 Plus plan will be billed to their accounts.

8 Meals Plus \$300	\$1,220
85 "Block Meals"	600
45 "Block Meals" Plus \$250	605

Note: Plus portion of plan is to spend as cash in the retail dining facilities and the Terrace dining room.

(All meal plans start at the beginning of the semester.)

Tenley Campus (Charges are by contract per semester)

19 Meal Plan Plus \$25	\$1,310
15 Meal Plan Plus \$50	1,260
12 Meal Plan Plus \$25	1,165

Special Fees

These fees are nonrefundable. The charges listed below are not included in tuition and general fees. *Note:* Special course and laboratory fees are listed in the *Schedule of Classes* published for each academic term and are also nonrefundable.

Admissions

Undergraduate Application/Readmission Fee	\$45
Graduate Application/Readmission Fee	50
Law School Application/Readmission Fee	55
Admission Testing	5

Health

Health Center Fee (each semester)	45
(Not charged separately to full-time campus residents; required of all others who wish to use student health center facilities)	
Health Insurance (per year)	500
For spring/summer only	340
(For full-time degree, resident, and international students the fee is assessed automatically and may be waived before August 31 for the fall semester or March 1 for the spring semester if the student possesses comparable private or group coverage.)	

Parking (per year)

Resident Student	485
Commuter Student	245
Part-time Commuter	105
(undergraduate and law students, fewer than 12 credits; graduate students, fewer than 9 credits; proof of part-time enrollment must be provided)	
Faculty/Staff Restricted	420
Faculty/Staff General	245
Part-time Staff	105
(Full-time students do not qualify for this permit)	
Motorcycle	55

Registration

Alumni Audit Program Registration	75
Alumni Audit Late Registration Fee	10
Faculty/Staff Registration	50
(for employees of the university or their spouses registering under the tuition remission benefit)	
Late Registration (each semester)	50
(effective the first day of the term)	

Student Accounts

American Installment Plan	
Program Fee (per year)	50
Late Fee (per monthly payment ¹)	20
Deferred Payment Plan (each semester)	40
Late Payment	50
(see "Late Payment and Financial Stop" below)	
Reinstatement	50
Returned Check	25
(for personal checks not honored by the bank)	

Student Confederation

(Mandatory for all undergraduate degree students each semester.)	
Full-time students	62.50
Part-time students	15

Sports Center Fee

Full-time (per semester)	65
Part-time (per semester)	30

Student ID Card Replacement

Transcripts	no charge
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Graduate Student Fees

Graduate Student Association	\$25
(Mandatory each semester for all full-time and part-time graduate students.)	
Maintaining Matriculation (each semester)	655
Comprehensive Examination Application	
Master's and Doctoral	25
Additional fee if in absentia	100
Microfilming of Dissertation, Thesis, or Case Study	
Master's Thesis or Case Study	25
Doctoral Dissertation	35
Law School General Fee (per semester)	
Full-time	120
Part-time	87
Summer (Part-time)	20

Continuing Studies Student Fees

APEL Admission Fee	\$25
Community Studies Application Fee	20
APEL Portfolio Assessment Fee	250
Fee for Posting Portfolio Credit on Academic Record	
(per credit hour/ maximum of 30 credits)	20

Payment of Charges

Students participating in advance registration must pay the balance due on or before the due date as indicated on the bill sent from the Office of Student Accounts.

Students participating in direct registration must pay the balance due on the day they register.

The American Guaranteed Tuition Single Payment Plan

Available to incoming freshmen, this plan allows students to stabilize tuition expenses by prepaying four years' tuition at the entering academic year rate.

The American Installment Plan

The American Installment Plan (AIP) is available to all full-time students. This plan covers the academic year and requires ten monthly payments from June 1 through March 1. Call the Office of Student Accounts at (202) 885-3541 for more information.

Deferred Payment Plan

Registered students whose total bill, after deducting all forms of tuition assistance, exceeds \$3,500 may elect the deferred payment plan. Under this plan the student pays half the total amount due (after deducting all forms of tuition assistance) plus a \$40 nonrefundable fee by the initial due date and the remaining balance approximately seven weeks later.

Students electing the plan are responsible for mailing subsequent payments to the Office of Student Accounts by the due dates.

Late Payment and Financial Stops

A late fee of \$50 may be assessed against a student's account for failure to meet the initial payment due date. A late fee of \$50 will be assessed for failure to meet the deferred payment due date.

In addition, failure to make payment when due will result in a financial "stop" being placed on the student's account. The financial stop will in turn result in a "hold" being placed on the student's academic records, including transcript and diploma, and may result also in denial of advance registration and use of the deferred payment plan or other credit privileges.

Financial stops may be removed following assessment and payment of a \$50 reinstatement fee. The university reserves the right to delay clearance until a personal check clears a financial institution.

A student who has once had a financial stop placed against his or her account may be denied future advance registration and deferred plan privileges even though the student has been reinstated on payment of the reinstatement fee. Repeated failure to make payments when due may result in severance of the student's relationship with the university.

Students who incur financial obligations in the parking and traffic office, library, health center, or athletic department may be subject to late payment fees and financial stop procedures.

Employer or Agency Tuition Assistance

A student requesting employer or agency billing arrangements must furnish the Office of Student Accounts with a valid

contract or purchase order before the first day of classes. A contract or purchase order must contain the following information: (1) student name and social security number, (2) term of attendance, (3) specific costs (and dollar amounts) to be paid by the sponsor (tuition, books, supplies, fees), (4) sponsor's billing address, and (5) contract or purchase order number or accounting appropriation, if applicable. Documentation submitted in lieu of a valid purchase order will not relieve a student of financial responsibility.

In case of partial assistance, the student is required to pay the balance of his or her tuition costs at the time of registration in order to be considered registered. A student portion which qualifies for the university deferred payment plan is to be paid by the deferred due date. Failure to comply will result in the assessment of a late payment fee. (See "Late Payment and Financial Stops" above.)

A student entitled to Campus Store credit may obtain a book charge form from the Office of Student Accounts. Purchases are permitted through the end of the add-drop period.

Failure to submit vouchers in a timely manner may result in the assessment of late fees. A student is responsible for payment of any billed amounts which have been disallowed by his or her sponsor.

Employee Tuition Benefits

Only full-time permanent faculty or staff employees of American University are eligible for tuition benefits. There is a nonrefundable \$50 registration fee each semester.

Applications for faculty, staff, and spouse benefits are available from the Office of Human Resources. The completed application must be approved by the Office of Human Resources and submitted to the Office of Student Accounts at the time of registration.

Late registration fees are not applicable to faculty and staff using employee tuition benefits.

Refunds and Cancellation of Charges

Tuition

Students who reduce their course load or who completely withdraw during the first four weeks of the semester must complete the appropriate forms available in the dean's offices and the Office of the Registrar, and submit the completed forms to the Office of the Registrar. The amount of tuition to be canceled will be calculated as of the date on which the withdrawal forms are received in the Office of the Registrar and in accordance with the tuition cancellation schedule in the *Schedule of Classes*. If the withdrawal results in a refund, the request for such refund should be made in the Office of Student Accounts. The student's account must show a credit balance before a refund will be processed.

Complete withdrawal from the university during or before the first week of classes will result in full cancellation of tuition charges provided the withdrawal form is received in the Office of the Registrar and dated no later than the first week of classes. A full cancellation of tuition will also pertain to a course dropped during the first week of classes.

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Withdrawal from the university or course drops that result in course-load reduction during the first four weeks of classes are subject to the percentage cancellation schedule published in the *Schedule of Classes* for the semester.

Discontinuing attendance in class or notifying an instructor does not constitute an official withdrawal. Students who do not officially withdraw (by submitting to the Office of the Registrar either a completed Course Registration Change Form or a Withdrawal from the University Form) during the cancellation period will be responsible for payment of the full amount of the applicable tuition and fees.

Tuition and program fee refund policies and deadlines for study abroad programs may differ because of the unique circumstances of each program and location. Consult the World Capitals Programs Office at (202) 895-4900 for specific guidelines.

Room

Requests for cancellation of room charges must be initiated by the student in the Office of Residential Life and Housing Services by the withdrawal deadlines. The student must then request any applicable refund through the Office of Student Accounts. The percentage cancellation schedule based on date of withdrawal is published in the *Schedule of Classes* for the semester.

Meal Plan

Students will be permitted to decrease or drop their meal plan *only* during the first ten days of the meal plan. Requests for meal plan cancellations must be initiated by the student in the Dining Services Office. Students then request any applicable refund through the Office of Student Accounts.

Once the meal plan week begins, the student will be charged the full amount based on the meal plan chosen, whether it has or has not been used for that week. Increases or new sign-ups may be done at any time throughout the semester.

Medical Withdrawal Policy

No special waiver or refund of tuition and fees is to be made when a student discontinues attending class due to medical reasons.

When a student is hospitalized on an emergency basis, and that in turn prohibits the student from formally withdrawing from class, then the Registrar is authorized to process a retroactive withdrawal based on the last date that the student attended class. The student must present evidence of his or her hospitalization and the date of last attendance in class should be verified by the appropriate academic unit(s). Providing that the retroactive withdrawal date falls within the allowable refund period, an adjustment to the student's account is permitted as authorized by published regulations.

Tuition Refund Insurance

Insurance coverage which would supplement the university's published refund policy is available to full-time students through the Tuition Refund Plan (TRP), an elective insurance plan sponsored by A.W.G. Dewar, Inc. Under this plan, students who withdraw from classes at any time during the semester because of a personal medical illness or accident will receive a full tuition refund; students who withdraw due to a mental/nervous disorder will receive a 60 percent tuition refund. Housing charges are refunded on a prorated basis. The plan year is comprised of both fall and spring semesters of an academic year. Enrollment in the plan must occur prior to the first day of fall semester classes. For more information about the Tuition Refund Plan, contact the student health insurance coordinator in the Student Health Center, Nebraska Hall, (202) 885-3378.

Financial Aid

All new or readmitted students must follow these steps to receive priority consideration for financial aid:

1. Submit admissions applications and all necessary supporting documents to the Undergraduate or Graduate Office of Admission by the appropriate deadlines.
2. Undergraduate students complete a current Free Application for Federal Student Aid (FAFSA) as soon as possible after January 1. New students must also complete the American University Financial Aid Supplement. The FAFSA should be received by the federal processing center and the AU Supplement by the Office of Financial Aid by March 1 in order to meet the financial aid priority deadline. The AU code number for the FAFSA is 001434. Applications received after March 1 will be reviewed only after on-time applications and as long as funds remain available.

Graduate students complete only a FAFSA for federal aid and apply for admission by February 1 to be considered for fellowships and assistantships.

New students should not wait to be admitted before filing the FAFSA and AU Supplement. A financial aid application has no bearing on a student's admission application. However, a student will not receive final consideration for aid until he or she is admitted to a degree program.

Undergraduate

American University has an extensive program of scholarships, loans, and grants. (See American University Programs, below.)

The federal programs in which American University participates include: Federal Perkins Loans, Federal Supplemental Educational Opportunity Grants (SEOG), Federal Work-Study (FWS), Federal Pell Grants, Federal Direct Stafford Loans, and Ford Federal Direct Parent Loans for Undergraduate Students (PLUS). (For more information see Filing Instructions, below.)

Graduate

College-based federal programs include: Federal Perkins Loans, Federal Work-Study (FWS), and the Ford Federal Direct Stafford Loan Program. Graduate Honor Awards and graduate fellowships and assistantships are available. (For more information see Filing Instructions, below.)

Students in the Washington College of Law should use the Free Application for Federal Student Aid (FAFSA) to apply for Federal Perkins Loans and Federal Work-Study; those interested in applying for need-based tuition grants should contact the Washington College of Law for application information.

Filing Instructions: In addition to the steps listed above, graduate students must submit the following:

1. Submit financial aid transcripts (if appropriate). All incoming transfer, graduate, and law school aid applicants must submit a financial aid transcript from all institutions previously attended. Transcript forms are available in the Financial Aid Office. Incoming applicants must request each institution to send a transcript to American University, Financial Aid Office. Federal funds may not be disbursed to students until such transcripts are received.
2. Complete and submit any other documents as requested by the Financial Aid Office.

Note: The application deadline for fellowship and assistantship consideration is February 1. The March 1 deadline for the FAFSA is for federal aid only.

Financial Need

The student's financial need is defined as the difference between the total cost of attendance and the expectation of assistance from the family.

All financial aid is based on the assumption that students and their parents will contribute a reasonable amount to meet educational expenses. Students and parents are encouraged to inform the Financial Aid Office should major changes in their financial situations occur.

Estimated Cost of Attendance

Undergraduate:

Tuition	\$18,300
Student Fee	255
Books and Supplies	450
Room and Board	7,350
Personal and Travel Expenses	1,300
Total	27,655

Graduate:

Tuition (9 credit hours per semester)	\$11,790*
Student Fee	180
Books and Supplies	792
Room and Board	10,060**
Personal and Travel Expenses	3,032
Total	25,854

* M.B.A. program tuition is \$19,080 per year. Total estimated cost of attendance for this program is \$33,144.

** For students living at home, or off-campus but not with parents, adjustments to these room and board averages will be necessary.

Notification

The Financial Aid Office carefully reviews the student's financial situation. If the student is eligible for assistance and monies are available, a financial aid award is made. Often the award is a "package" of assistance in the form of grants, loans, and work.

The Financial Aid Office notifies applicants who meet the priority deadline as soon as possible after receipt of all application material. New students should note that they must be admitted to a degree program before any action will be taken on their financial aid applications.

Notification Dates:

Early Decision Freshmen	January 2
Regular Decision Freshmen	March 30
Transfer	April 30
Continuing Undergraduates	mid-June
New Graduate and Law	May 1
Continuing Graduate and Law	mid-June

Satisfactory Academic Progress

All aid recipients in all programs must maintain satisfactory academic progress toward their degrees in order to remain eligible for consideration. This progress is defined both qualitatively and quantitatively. As a minimum, full-time undergraduates are expected to complete 24 credit hours each year with a cumulative grade point average of 2.00; full-time graduate students must complete 18 credit hours with a grade point average of 3.00. Part-time students must complete 80 percent of all attempted credit hours. Certain aid programs carry additional restrictions to which the Financial Aid Office must adhere. For more specific information, students should consult the Financial Aid Office at (202) 885-6100.

Refund Policy

Refunds of student aid to an eligible student are made through the university's Office of Student Accounts. Students with a credit balance must apply for a refund by completing the Student Refund Request form available in the Office of Student Accounts. Eligibility for a refund depends on the student recipient's enrollment status, cost of education, and date of attendance. Changes in any of these factors, such as dropping courses or withdrawal from the university, could result in the reduction of the student's aid package, thereby removing a potential credit balance. A student who withdraws from the university will receive only what balance remains, if any, after costs are calculated and aid is restored to the aid accounts. Also, a student who receives a refund based wholly or partly on financial aid and later changes enrollment status may be required to return all or part of the refund to the university.

Financial Aid Transcripts

Students may obtain transcripts of their financial aid records from the Financial Aid Office. There is no fee for this service.

Federal Programs

To receive consideration for federal financial aid, a student must be a United States citizen or eligible non-citizen in a degree program.

The Federal Work-Study Program (FWS): This program provides the opportunity to work part-time on campus, or off-campus in community service and tutoring positions. Students must demonstrate financial need and be enrolled at least half-time. Students who have been awarded FWS may utilize these funds in the Cooperative Education Program. (For more information, see the Career Center and Cooperative Education Program chapter.)

Federal Loans

The Federal Perkins Loan Program: This program provides low-interest loans for degree-seeking students who demonstrate financial need.

An undergraduate student may borrow up to \$3,000 per year with a maximum aggregate total of \$15,000, while a graduate student may borrow up to \$5,000 per year with a maximum aggregate total of \$30,000 (includes undergraduate loans).

Repayment begins six to nine months after graduation or the end of enrollment on at least a half-time basis. The loan must be repaid within ten years. During the repayment period, 5 percent interest on the unpaid balance of the principal will be charged. Provisions for deferring or canceling payment are available in some situations.

Federal Direct Stafford Loan Program: A Ford Federal Direct Stafford Loan is a low-interest loan available from the federal government. These loans are awarded and disbursed by the American University Financial Aid Office. An undergraduate student may borrow up to \$2,625 for the first year of study; \$3,500 for the second year; and \$5,500 per academic year after completing two years of undergraduate study. Independent undergraduate students in the first two years of study may borrow up to \$4,000 in addition to the amounts listed above, while third and fourth year students may borrow up to an additional \$5,000. Graduate students may borrow up to \$18,500 each academic year. The total aggregate allowed for undergraduate and graduate students is \$138,500.

The federal government will pay the interest on all or a portion of the loan while the student is in school, depending on the amount borrowed and whether or not the student qualifies for an interest subsidy.

Repayment of the loan begins six months after a borrower drops to less than half-time status, and there are several payment plans available.

Federal Direct Parent Loans for Undergraduate Students (PLUS): The Ford Federal PLUS program was designed to provide parents with additional funds to assist them in meeting educational expenses. These loans, which are not based on need, are available from the federal government through American University.

Parents of dependent undergraduate student may borrow up to the cost of attendance, less any financial aid the student is receiving.

The interest rate on the Ford Federal PLUS program is variable. Repayment generally begins within sixty days of the loan's disbursement, and several payment plans are available.

Federal Grants

Federal Pell Grant Program: This program provides grant aid to eligible students enrolled at least half-time in degree programs. The amount of a Federal Pell Grant award will be based on the Department of Education's determination of eligibility.

Federal Supplemental Educational Opportunity Grants (SEOG): Federal funds available through the university to undergraduate students with exceptional financial need.

State Scholarship and Grant Programs

Many states administer grant and scholarship programs which residents may apply for and receive while attending American University. Students should check with local guidance counselors and state grant agencies regarding up-to-date application procedures and eligibility factors.

American University Programs

Restricted University Loans

Loans are available to needy students at American University on a short- and long-term basis. Funds are provided either by private endowments to the university or by the university itself. The qualifications for each of these programs vary according to the stipulations that the donors have made for the individual accounts. Funds are extremely limited and are considered a resource of last resort.

Alumni Association Loan Fund: The American University Alumni Association has established a loan fund for American University alumni who are pursuing part-time graduate study. The loan must be repaid with 2 percent interest.

Frank W. Ballou and Adeline J. Ballou Memorial Loan Fund: This loan fund was established in 1985 by Mrs. Adeline J. Ballou of Washington, D.C. Its purpose is to assist needy and deserving students who are enrolled full-time in a degree program.

Morris and Gwendolyn Cafritz Foundation for Middle Income Students Loan Fund: This revolving loan fund was established by a grant from the Cafritz Foundation of Washington, D.C. for middle income students who, without this assistance, would not otherwise be able to continue their education. Interest accrues at the rate of 7 percent per annum.

Class of 1932 Loan Fund: These funds are lent to worthy and needy full-time undergraduate students. Interest accrues at 4 percent per annum.

Sinclair B. Dell Loan Fund: A memorial loan fund was established to honor Dr. Sinclair Dell, a Washington podiatrist, who died of cancer in 1975. Repayment must be made within one year of the award at 2 percent interest.

General University Loan Fund: This loan is designed for both graduate and undergraduate students with no outstanding debts to the university. The interest is 4 percent per annum.

Rose Mae Howard Memorial Loan Fund: This fund was established in 1975 by the Rose Mae Howard estate to assist students who are in need of financial aid to complete their education. This loan is awarded to full-time undergraduates and bears a 9 percent interest rate upon repayment.

The Interfraternity Council Orphan Fund: This loan fund was provided by the American University Interfraternity Council beginning in 1961. Recipients must be male orphans under 21 years of age. There is no interest charge on repayment.

Willett M. Kempton Loan Fund: These loans are awarded to full-time graduate or undergraduate students in the School of Communication. The interest rate is 4 percent per annum.

Kogod College of Business Administration Student Loan Fund: The loan fund was established to help part-time or full-time undergraduate and graduate students who are enrolled and are in good standing in the Kogod College of Business Administration. Terms of the loan include a 5 percent rate of interest which will accrue on receipt of the loan. Repayment begins six months after graduation. This loan may be applied for in the Financial Aid Office.

Ida Letts Educational Loan Fund: This fund is for full-time undergraduates. The interest rate is 2 percent per annum while the recipient is enrolled full-time and 4 percent per annum after enrollment at American University ceases.

Long Loan Fund: This loan was designed for the daughters of United Methodist ministers in the College of Arts and Sciences. The interest rate is 4 percent per annum.

Anna Mary Mann Memorial Loan Fund: These funds are restricted to women in the Kogod College of Business Administration and the School of International Service. The interest rate is 4 percent per annum.

William Hill McKenzie Loan Fund: This fund was established in September 1968 in memory of William Hill McKenzie IV, who died in March 1968 and was awarded a Bachelor of Arts degree posthumously in June 1968. It provides emergency assistance to full-time, married seniors at American University. Four percent interest accrues from the date the loan is made.

Shirley E. Minus Loan Fund: This fund is designed to aid undergraduate students in good standing at the university. The fund is especially suited to students who may not qualify for other financial aid. Three percent annual interest will accrue on the unpaid balance beginning nine months after graduation or separation from American University.

Thomas Moore Emergency Loan Fund: This fund was established in January 1970 by Theodore and Lillian Moore as a memorial to their son Thomas, an American University sociology student killed in an automobile accident in 1969. Students may borrow up to \$50 to meet financial emergencies.

Morris Morgenstern Loan Fund: This loan was established in 1972 by the Morris Morgenstern Foundation of Long Island, New York. It is issued for no longer than one year to students in need of emergency assistance. Funds are not available to freshmen. The interest rate after the due date is 4 percent per annum.

Stanley Posner Student Emergency Loan Fund: A short-term, no-interest loan fund to assist students in emergency situations. Loans are to be repaid in thirty days and will not exceed \$50.

Real Estate Alumni Loan Fund: Established to assist needy students enrolled as real estate or finance majors or both in the Kogod College of Business Administration. First preference is given to real estate majors and to junior, senior, and graduate students. Current interest is 9 percent.

Roland Rice Loan Fund: Borrowers of this loan must be students who are not qualified to receive aid from other student aid sources available at the university. Interest accrues at 4 percent per annum. The loan must be repaid within two years after graduation.

Residence Hall Association Emergency Loan Fund: Established in 1965 by the Women Residents Association to assist women living in the residence halls. The fund was altered in 1976 to include men residing in campus housing. This is a short-term loan.

Bertha Roberts Loan Fund: Made possible by a bequest from the Bertha Roberts estate in 1973, the fund provides interest-free loans to young men and women preparing for Christian ministry or missionary work, or other religious positions. Interest accrues at 5 percent on the unpaid balance if a default occurs; otherwise the loan is interest free.

Aretta Skinner Rudd Loan Fund: Made possible by a bequest from Arletta Skinner Rudd's estate in 1986, this fund provides financial assistance to needy full-time undergraduate students. The interest rate is 8 percent.

William M. and Rebecca Sachs Loan Fund: This emergency loan fund was created by the Sachs family in 1962 for needy full- or part-time undergraduates or graduates who have completed at least one semester in the Kogod College of Business Administration. The interest rate of 7 percent begins at the time of repayment or upon graduation.

Skaskan Family Student Loan Fund: This fund is available to full-time undergraduate and graduate students who are in their last year of study. The interest rate is 9 percent.

Student Confederation Loan Fund: This loan fund was established in 1975 to aid full-time undergraduates other than freshmen. The interest rate is 3.5 percent.

United States Steel Foundation Loan Fund: This fund aids full-time graduate students with preference to those enrolled in the Kogod College of Business Administration. Students must be recommended by the dean. The interest rate is 9 percent per annum.

Washington College of Law Dean's Loan Fund: This fund aids law students and is administered by the Washington College of Law. Interest accrues at 4 percent per annum. Students must apply directly to the Washington College of Law.

Washington College of Law Alumni Loan Fund: This loan is funded by alumni contributions and is usually available in the amount of \$1,000 at 7 percent per annum. Loan repayments begin six months after graduation. This loan is limited to seniors and other students who are in serious financial need.

Weinberg Student Loan Fund: Mr. and Mrs. J. A. Weinberg, Jr. established this loan fund in 1968 to assist students in the business school who have successfully completed one full year of study. Interest accrues at 4 percent beginning when the loan is made.

Grants

Athletic Grants: The Department of Athletics and Recreation makes partial- to full-tuition grants based on athletic promise and ability. Students interested in being considered for these renewable grants should call or write the coach of the sport in which they excel.

American University Grant Program: Full-time undergraduate degree students who demonstrate a need for assistance may be eligible. Amount is based on need. The maximum annual grant is one-half tuition. Submission of a financial aid application is required.

Tuition Exchange

American University is one of more than 160 colleges and universities that participate in the Tuition Exchange Program for faculty and staff members. Students whose parents are employed by one of the participating institutions may be eligible for a Tuition Exchange Scholarship. Further information may be obtained from the Tuition Exchange Officer of the participating college or by writing the Human Resources Office at American University.

Tuition Remission

Full-time faculty or staff members are eligible for tuition benefits. There is a \$50 registration fee (nonrefundable) per semester.

Undergraduate University Scholarships

Honor Scholarships: The Financial Aid Office selects freshmen for Honor Scholarships of varying amounts. Selection is based solely on merit, although additional aid based on financial need may be offered as part of a financial aid award. These tuition awards are renewable for a total of eight semesters provided the student makes satisfactory progress toward the degree (measured both through the cumulative grade point average and the completion of 15 credit hours each semester and 30 credit hours each academic year).

Frederick Douglass Scholarships: Scholarships are awarded to admitted applicants who are Black, Hispanic, Asian, or American Indian full-time undergraduates and U.S. citizens or permanent residents. First preference is given to graduates of Washington D.C. metropolitan area high schools, then to graduates of other high schools in the nation. Academic achievement and financial need must be demonstrated. The awards provide partial tuition and are based on financial need. (Each year a limited number of awards exclusive of financial need are made to outstanding applicants.) Incoming students must complete an application for admission to a degree program at the university by February 1. A Free Application for Federal Student Aid and a supplemental financial aid form must also be received.

American University Merit Scholarships: American University sponsors a number of tuition merit scholarships under the National Merit Scholarship Corporation's Merit Scholarship Program. National Merit finalists who indicate to the National Merit Scholarship Corporation that American University is their first choice university are offered the scholarship. The awards are renewable and amounts vary. Finalists in the National Achievement Program for Outstanding Negro Students and in the National Hispanic Scholarship Program are also considered for a number of merit awards based on academic achievement.

Community Studies Scholarships: The Community Studies Scholarship Program provides financial assistance primarily to low-income adults residing in the District of Columbia and the greater Washington, D.C. metropolitan area who are the first generation in their families to attend college and are members of minority groups. Community Studies scholars at American University realize their learning potential by matriculating into a bachelor's degree program. Adults who have been out of school for a number of years find the program an excellent way to complete their degree on a part-time basis.

Restricted Scholarships

The university has a limited number of scholarships that are funded either annually or through endowment by gifts from private donors. Applicants for financial aid are routinely reviewed by the Financial Aid Office for eligibility for these scholarships. No separate application is required.

Normally, recipients must demonstrate financial need, maintain a cumulative grade point average of 3.00 and meet specific donor criteria. All restricted scholarships are administered by the Office of Financial Aid unless otherwise noted.

Ernest M. Aiken Scholarship: To assist international students the Ernest M. Aiken Scholarship was established in 1961 by Mrs. Herminia Aiken in memory of her husband. Priority is given to currently enrolled candidates in degree status and in good academic standing. Applicants should contact Intercultural Student Services, Butler Pavilion 408.

Walter and Sarah Alexander Scholarship: This scholarship was established in 1927 by the children of Walter and Sarah Alexander. Recipients must be residents of Wisconsin.

Hurst R. and Marian P. Anderson Scholarship Fund: This scholarship was established in 1967 by former president Hurst R. Anderson (J.D., WCL '68) and his wife, Marian, to aid needy students from the Washington, D.C. area.

Judith D. and D.F. Antonelli, Jr. Scholarship: Established by trustee D.F. Antonelli, Jr. and his wife, Judith, in 1986 to provide funds to exceptional and needy students.

Baer Memorial Scholarship: This fund was established in 1937 by Emma Baer to aid needy students from Pennsylvania.

Esther W. Ballou Memorial Scholarship: This scholarship is funded by alumni and friends of Esther Ballou, a composer and teacher at American University. It provides funds for music majors.

Bawel Memorial Scholarship: This fund was established in 1962 through a grant from the estate of Helen Bawel for students who demonstrate academic excellence.

William Kermut Barclift Scholarship: This scholarship was established in 1990 by Mr. and Mrs. Kermit T. Barclift in memory of their son Kermit (B.A., CAS '68; M.A., CAS '69), to fund a freshman studying in the School of Communication.

John and Mabel Becker Scholarship: This scholarship is awarded to a male student with an excellent academic record.

Dorothy and Jack Bender Scholarship: This scholarship was endowed in 1976 by Morton Bender, in memory of his parents. The award is available to a full-time freshman who shows financial need and academic achievement.

Lucius and Grace Bennett Scholarship: This scholarship was established in 1944 by the estate of Grace Bennett to assist a male student from Logan County, Ohio.

Leo M. Bernstein and David I. Estrin Scholarship: Established by Wilma (B.A., CAS '60) and Stuart Bernstein (B.S., KCBA '60, Trustee) in honor of their fathers. Students in the Kogod College of Business Administration are eligible.

Stanley Bobb Scholarship: This scholarship was established in 1989 to aid freshmen from the D.C. area studying in the Kogod College of Business Administration.

John Bowden (B.S., CAS '68) Memorial Scholarship: Awarded to students pursuing a career in photography.

Borden Parker Bowne Scholarship: This fund was provided by the estate of Ida C. Morrison for students in the philosophy department.

Lura Bradfield Foundation Scholarship: Established by a generous gift in 1997 from the Lura Bradfield Foundation, this scholarship supports female students pursuing either graduate or undergraduate degrees. Bradfield scholarships are financially substantial and competition for them is strong.

Barnee Breeskin Scholarship: This fund was established in 1991 to provide scholarships for students in the performing arts.

Joseph A. Britton Scholarship: The Britton Scholarship was established in 1982 by the family of Joseph Britton, who graduated in 1938 from the College of Arts and Sciences. The recipient of this award must exhibit excellence in academics as well as athletics.

L.E. and L.J. Brown Scholarship: Funded in 1947 by the estate of Lucy J. Brown to help students preparing for the ministry.

Mary Louise Brown Scholarship: This scholarship was established by the estate of Kathryn G. Heath (B.A., CAS '31; Ph.D., SGPA '51) in 1989. It provides funding for undergraduate or graduate female students pursuing a professional or paraprofessional career.

Robert A. Bunnell (M.A., CAS '82) Scholarship: Established in 1992 by Claude A. and Sara H. Bunnell and friends to aid graduate students in journalism and public affairs.

Abbey Joel Butler Scholarship: This scholarship was established by trustee Abbey Joel Butler (B.S., KCBA, '59). Awards are made annually to a Kogod College of Business Administration freshman who demonstrates outstanding academic merit and financial need. Priority is given to students from the New York City metropolitan area.

Laura Belle Campbell Scholarship: This award was funded in 1955 by the estate of Laura Belle Campbell to aid students preparing for the ministry.

Allan Carney Memorial Scholarship in Fine Arts: In 1991 this scholarship was established by Magenta Carney Yglesias (B.A., CAS '79) in memory of her father, for students in the fine arts who exhibit financial need and academic excellence.

Carrasco Scholarship: Established by Marjorie Carrasco on behalf of the Friends of David Carrasco. It is awarded to a basketball student-athlete who demonstrates a real commitment to learning, athletic striving, and has financial need.

Central High School Alumni Endowed Scholarship: This scholarship was established in 1988 for undergraduate students. It is supported by the alumni of the Central High School of Washington, D.C. to "...keep (the) name and spirit alive for years to come and (to) help some worthy students to further their education."

James Edward Miller Chapman Scholarship: This \$1,000 scholarship is available annually to an undergraduate student who is a resident of the District of Columbia and who is majoring in business or economics. This scholarship was established by the Chapman Education Foundation in 1984.

Grace L. Chavis-Butler Scholarship: Ms. Charvis-Butler, an alumna (B.S., CAS '54, M.A., CAS '55) established this scholarship in 1990 to support undergraduate scholarships for minority students.

Benson T. Chertok Scholarship: This fund is awarded to an outstanding American University science student in honor of Benson T. Chertok for his work in nuclear physics.

George C. and Louise E. Clark Scholarship: George C. Clark established this scholarship in 1959 for outstanding students with financial need.

The Cochran Memorial Fund: This fund was established in 1956 by the estate of Mary E. Cochran to aid students preparing for the ministry.

Comiteau Family Scholarship: Established by Joel Comiteau (B.S., KCBA '58) in 1990. Awarded to academically outstanding and needy freshmen from the New York City metropolitan area. Preference is given to students involved in community service during high school.

Wade Cooper Scholarship: The estate of Wade Cooper provides funds to qualified students with financial need.

Dr. Ronald Francis Crown Scholarship: Established by a generous gift in 1997 by Mrs. Gladys M. Crown, this scholarship supports student athletes with high GPAs who have lettered in at least one sport. Preference is given to student athletes majoring in the sciences.

Corra and John H. Davis Foundation Scholarship: The Davis Foundation assists needy students. These scholarships were established in 1983.

Joseph Dawson Scholarship: Funded in 1955 by the estate of Margaret Y. Dawson, this scholarship assists children of ministers of the Baltimore Conference of the Methodist Church.

Charles H. and Iva N. Dean Scholarship: Started in 1947 by the estate of Iva N. Dean, this scholarship is designated to assist preministerial students.

Rev. Charles and Dora DeLong Scholarship: This award was established in honor of Rev. and Mrs. DeLong by Mr. and Mrs. J. Dennett Guthrie to aid qualified students enrolled in the School of International Service.

Nancy Devor Scholarship: Awarded to students enrolled in the School of Public Affairs, this scholarship is funded by a 1910 endowment from the estate of Nancy Barnes Devor.

Professor José D. Epstein Award: Established by a generous gift in 1997 from Mrs. Ursula Epstein, this award is in memory of her husband, former Economics professor José Epstein. This award goes to the student in the Department of Economics with the best performance as measured by cumulative GPA at the end of the student's last semester. Preference is given to students in the Master of Arts in Development Banking program.

The 50th Reunion Scholarship: This scholarship is funded by members of the class of 1939. It provides funds to students who have demonstrated academic excellence.

Keith Fleer Scholarships in Communication and Public Affairs: Three scholarships were established by Mr. Keith Fleer (B.A., SGPA '64, J.D., '67) in 1993. Two are awarded in the School of Communication and a third is awarded in the School of Public Affairs. Priority is given to undergraduate students with junior status in good academic standing who have demonstrated outstanding merit and need. Preference is given to minority students in the School of Public Affairs.

Michael Forman Scholarship: This scholarship was established in 1984 to aid undergraduate students majoring in communication, visual media, literature, or cinema studies.

Hymen Goldman Scholarship Fund: This fund was established in 1968 by the Aaron and Cecile Goldman Foundation to award deserving and needy students from the Washington, D.C. metropolitan area.

Everett and Marian Gordon Scholarships: This scholarship was established in 1976 by Dr. Everett and Marian Gordon, parents of a former AU student, to assist Jewish Studies majors.

Sylvia and Harold Greenberg Endowed Scholarship: Established in 1990 by Sylvia Kay Greenberg, a trustee, and her husband, Harold Greenberg. The income from the fund is used to support an undergraduate student in the performing arts.

Arabella Griffin Scholarship: This endowed fund was established in 1920 by the Rev. and Mrs. Charles Griffin for outstanding students from any college or school in the university.

Ernest S. Griffith Scholarship: This scholarship was established in 1965 to aid students enrolled in the School of International Service.

Annie G. Hall Scholarship: Awarded to students preparing for the ministry, this scholarship is financed through a fund established in 1942 by Annie G. Hall.

The C.E. Hammond Scholarship Fund: Established in 1927 by the estate of C.E. Hammond, this fund assists students preparing for the ministry.

Milton Harris Scholarships: The Office of Financial Aid in cooperation with the Department of Chemistry selects a varying number of deserving undergraduate students annually to receive the Milton Harris Scholarship.

The E. Haskell Scholarship: The estate of E. Haskell provides funds to aid preministerial students.

William Randolph Hearst Minority Scholarship: The Hearst Foundation established an endowment fund in 1983 to support a scholarship program with preference for minority undergraduates. Recipients are chosen based on academic achievement, motivation, and financial need.

Hechinger Foundation Scholarship: In 1983 the Hechinger Foundation established an endowed scholarship fund, the income of which is awarded on an annual basis. First preference is given to black undergraduate students from the District of Columbia who are majoring in business.

David Hertz Memorial Scholarship: This scholarship was established by the friends and family of David Hertz (B.A., SGPA '63). The income from this fund provides an annual award to a student or students demonstrating academic excellence.

The Helene M. Herzbrun Art Scholarship Fund: Dr. Philip Herzbrun established this endowed scholarship fund in 1984 in memory of his wife Helene, an artist and former chair of the Department of Fine Arts. The scholarship is awarded to undergraduate students with financial need majoring in art. Selections are made in cooperation with the Department of Art.

Ludwig Maximilian Homberger Scholarship: This scholarship was funded in 1982 by the estate of Elizabeth B. Homberger in memory of her husband, a former American University professor. It was established to assist needy German exchange students studying at American University.

Bruce Hughes Scholarship: This scholarship is awarded to outstanding students through a 1917 gift from the estate of the Rev. Bruce Hughes.

Hyman Scholarship: Established in 1956 by the estate of Emma Hyman, this scholarship aids students preparing for the ministry.

Catherine Letts Jones Scholarship: Established in 1964 by Mrs. Jones, this scholarship assists women who are native-born Americans.

Jack Jurey Memorial Scholarship: This fund was begun in 1970 by Mrs. Jack Jurey. The recipient must be a junior, senior, or graduate student pursuing a career in broadcast journalism. Selections are made through the School of Communication.

Adam and Samuel Karsch Memorial Scholarships: These scholarships, established in 1991 by Mr. and Mrs. Mark Karsch, assist business students from the New York City area who are academically qualified. Mr. Karsch is an alumnus of the university (B.A., KCBA '67).

Adnan Khashoggi Scholarship: Established in 1983 by Adnan M. Khashoggi, a scholarship is awarded annually to an outstanding undergraduate who demonstrates substantial financial need.

Kovler Family Scholarship Fund: This scholarship was established by the Blum-Kovler Foundation in 1993 for undergraduate students majoring in finance in the Kogod College of Business Administration who exhibit financial need and academic excellence.

Hugh and Maggie Legge Scholarship: Funded by Hugh Legge in 1937, this scholarship aids students from Kent Island in Queen Anne's County, Maryland.

Catherine Letts Scholarship: Provides funds for legal residents of Iowa.

Minnie Letts Scholarship: Provides funds for an outstanding resident of Kansas.

Mary and Daniel Loughran Scholarship: This scholarship is awarded to four students from each class who have demonstrated academic excellence, leadership, and service to the university community. The fund was established in 1976 by a grant from the Mary and Daniel Loughran Foundation.

John H. and Nannie C. Lucas Scholarship: Established in 1928 by Nannie Lucas, this scholarship aids residents of Missouri.

Frank J. Luchs Memorial Scholarship: This scholarship was established by trustee Kenneth Luchs in memory of his father Frank J. Luchs. It is awarded by the Kogod College of Business Administration to students pursuing a career in real estate or business administration.

Ruth McFeeter Scholarship Fund: This memorial scholarship fund was established in 1994 by the friends of the late Ruth McFeeter (faculty emerita). This emergency scholarship is awarded to students exhibiting extreme financial need.

Charles Merrill Scholarship: Established in 1973 to provide financial assistance to needy undergraduates in the Kogod College of Business Administration.

Samuel J. Moritz Scholarship: Established in 1961 by the estate of Samuel Moritz, this fund assists students in the School of International Service.

National Organization of Black Law Enforcement Executives (NOBLE) Scholarship: This scholarship was established by NOBLE in 1992 for a minority student studying law and justice who plans to pursue a career in law enforcement.

Charlotte W. Newcombe Foundation Scholarship: The Charlotte W. Newcombe Foundation made its first annual gift to American University in 1981 to fund scholarships for mature second-career women students attending full- or part-time. Students should have completed half the credits necessary for their bachelor's degree before applying for the fund.

Charles A. Norwood Memorial Scholarship: Aids students who are legal residents of Maryland.

Opdyke Memorial Scholarship: The Opdyke Memorial Scholarship was established in 1931 through the estate of Dorothy Opdyke. Awards are made to women preparing for foreign missionary service.

Miriam Ottenberg Memorial Scholarship Fund: The generosity of various donors to a fund in memory of Miriam Ottenberg, a former reporter for *The Washington Star*, has made this fund available to needy students. Preference is given to those majoring in print journalism.

Willis L. Overdeer Scholarship: Established by the estate of Willis L. Overdeer, this scholarship provides assistance to students from Delaware preparing for the United Methodist ministry.

Carrie Oves Scholarship: Awards are presented to students with financial need from any college or school of the university.

George and Thelma Paraskevaides Foundation Scholarship Fund: Established in 1985, this scholarship provides assistance to students from Cyprus pursuing undergraduate studies in the humanities and social sciences. Recipients must be in high academic standing and show financial need.

Charles Coolidge Parlin Scholarship: This scholarship was established in memory of Charles Parlin, a past member of the Board of Trustees at American University, through a gift by the Celanese Corporation. Students who demonstrate leadership qualities and academic excellence are considered for this scholarship.

Mary Miller Patton Scholarship: This scholarship was established in 1993 in honor of Mary Miller Patton (faculty emerita). It is awarded to juniors studying in the literature department whose area of interest is 19th century English literature and who plan to pursue a career in teaching.

Phi Delta Gamma Scholarship: Established in 1988 by the Alpha Chapter of Phi Delta Gamma, this scholarship is awarded to a graduate student with a 3.5 grade point average who resides in the Washington, D.C. metropolitan area and is working toward a doctoral degree.

Albert Pike Scholarship: This scholarship is funded by the Scottish Rite of the Southern Jurisdiction and is awarded to students enrolled in the School of International Service who plan to serve in a government position after graduation.

Püttman Potter Award: Awarded to students in the School of International Service.

Sara Presciutti Memorial Scholarship: Established by the family and friends of the late Sara Presciutti (CAS '96) in 1993, this scholarship is awarded to an AU student with an interest in Italian studies.

Mary A. Pugh Scholarship: This scholarship was established by Mary A. Pugh (Ph.D., CAS '66) and is awarded annually to a student enrolled in the School of International Service.

Marion F. Purcell Memorial Scholarship: This scholarship was initiated in 1968 by Francis D. Purcell to honor his wife, who was employed at American University. This scholarship is awarded to a student in the School of International Service who demonstrates compassion and understanding to others.

The Ramsey Memorial Scholarship: This scholarship was established in 1941 by the Ramsey estate "for the education of ministers of the gospel of Jesus Christ."

Regardie Scholarship: Awarded to deserving students from the Washington, D.C. metropolitan area who are studying business.

Theodore Reid Scholarship: Established by Minerva Reid on behalf of her husband Theodore in 1993. It is awarded to women and minorities, with preference for Native Americans, majoring in science and technology.

Nancy C. Reynolds Scholarship: Established in 1992 to support scholarships for students attending the Washington Semester Program.

Ethel Ridgeway Scholarship: In 1978, 10 percent of the estate of Ethel Ridgeway was donated to assist qualified students preparing for the ministry.

Effie Ritchie Scholarship: A scholarship fund from the estate of Effie Ritchie was established to assist qualified students preparing for the ministry.

Frank and Anthony Rodriguez Memorial Scholarship: An endowed scholarship established in 1991. Interest from this account is used to provide a scholarship to an outstanding undergraduate student, with preference given to Hispanic students.

Richard Ruddy Memorial Fund: This scholarship fund was established in 1987 by the friends of Richard Ruddy (MBA '76). It is awarded to a graduate student studying finance. To apply, contact the graduate student office in the Kogod College of Business Administration.

Serge Sacknoff Memorial Sculpture Fund: This scholarship was established in memory of Serge Sacknoff and was endowed by his daughter. It is awarded to one or more undergraduate or graduate students in the sculpture program.

Jack B. Sacks Scholarship: Awarded to a deserving student for academic achievement in the field of business and advertising or marketing.

Karim Said Foundation Scholarship: The Karim Said Foundation supports an annual scholarship for two graduate students from the Arab world majoring in computer science who intend to return to their countries. The award may be used for tuition, room and board, and travel.

Agnes Gordon Sampson Scholarship: Established in 1986 to provide undergraduate scholarship support to students, with preference given to minority students.

Savage-Trowbridge Scholarship: Available to undergraduate students with outstanding academic qualifications enrolled in the School of International Service.

Scher Family Scholarship: This scholarship was established in 1989 by the parents of Peter Scher (B.A., SGPA '83, J.D., WCL '87) and Allison Scher Halper (B.A., CAS '86). It is available to juniors majoring in communication who demonstrate financial need.

Anthony Schwartz Scholarship: Established in 1989 in memory of former faculty member Anthony M. Schwartz by his wife, Jane, family, and friends, to aid chemistry students in their summer research.

Colonel William E. Schooley Scholarship: A tuition scholarship awarded to students in the School of International Service from funds provided by the Scottish Rites in the Valley of Washington for the Southern Jurisdiction, U.S.A.

Shaskan Family Scholarship: Made available by Mr. and Mrs. George B. Shaskan and family, this scholarship is awarded to a deserving undergraduate. Mr. Shaskan is an alumnus of the university (M.A., CAS '43).

Minnie Smith Scholarship: Presented to qualified students from any college or school of the university.

Southern Management Corporation Scholarship: Established in 1992 by trustee Suzanne Hillman (B.S., KCBA '75) and her husband, David Hillman, to provide financial assistance to deserving business students with preference given to residents of Prince Georges County, Maryland.

T. Eugene Spragens Memorial Scholarship: Established in 1990 by Dr. William C. Spragens in memory of his nephew. It is awarded to Washington Semester students studying economic policy or international business.

Solon E. Summerfield Scholarship: In 1982, the Summerfield Foundation established an endowed scholarship fund to aid deserving undergraduate students.

Joel and Leona Tall Scholarship: In honor of their fiftieth wedding anniversary, a scholarship was initiated in the name of Joel and Leona Tall, residents of the District of Columbia. The scholarship is intended to help young writers in the areas of literature and journalism.

Theological Seminary Scholarship: Intended for full-time undergraduates who wish to pursue theological studies at the Wesley Theological Seminary after graduation from American University.

George W. Townsend Scholarship: Established in 1928 by George Townsend, this scholarship is presented to qualified students preparing for the ministry.

Michael Trilling Memorial Scholarship: Established in 1989 by the family and friends of Michael Trilling (B.A., CAS '63). This is a two-year award given to graduate students. The recipient is required to work in the Department of Athletics and Recreation's Sports Information office during the term of his/her award providing the student remains in good academic standing. Nominations are made by the director of Athletics and Recreation.

Jayne Valecce Scholarship: Established by the Valecce family in memory of their daughter, Jayne (B.A., SGPA '81). The Valecce scholarship provides funds to a student with financial need who works in the Office of Financial Aid.

Vollmer Scholarship: Established by the Vollmer Foundation in Venezuela in 1994. Awarded to graduate students from the College of Arts and Sciences. Preference is given to students from Venezuela.

Marjorie Fraser Webster Memorial Scholarship: This scholarship was established in 1977 to memorialize the founder and president of Marjorie Webster Junior College, Marjorie F. Webster. The scholarship is designed to assist junior or senior women who have financial need and meet the university's academic requirements.

Donald Weiss Family Scholarship: This scholarship was established by the Donald Weiss family in honor of their son, Peter, to be awarded to a disabled student.

Women's Guild of The American University Scholarship: The Women's Guild of American University provides a scholarship to a senior female student in the College of Arts and Sciences. The student must have attended American University all four years and must show excellence in academics.

Harry J. Wheaton Scholarship: Established by a generous gift in 1996 from the widow of Harry J. Wheaton, a former faculty member at American University. The scholarship supports undergraduate or graduate students in the Kogod College of Business Administration who demonstrate academic merit.

George Woods Scholarship: This scholarship is funded by a gift from Margaret P. Woods. Awards are made to qualified students from any college or school of the university.

ZBT Endowed Memorial Scholarship: This scholarship was established in 1992 in memory of deceased ZBT brothers. It is awarded to undergraduate students in good academic standing who are members of the Zeta Beta Tau fraternity or the son or daughter of a former ZBT member.

Graduate Financial Aid

Merit-Based Awards

Teaching Unit and Administrative Awards

Teaching unit awards usually involve assisting members of the faculty in their research or teaching. The awards are made by the teaching units according to their own criteria. Fellowships provide a stipend and from 9 to 24 hours of tuition remission. There is a service commitment of up to twenty hours each week during each semester. Assistantships provide from 9 to 24 hours of tuition remission during the academic year and require a service commitment of up to ten hours each week during each semester. The specific amount of the service requirement is determined by the teaching unit. Summer fellowships are available through the teaching units.

Administrative awards involve work in a variety of university offices and programs, including Student Services and the University Computing Center. Potential recipients are nominated by the teaching units and final selections are made by the heads of the administrative units.

Graduate Honor Awards

Nominations for the Graduate Honor Awards are made by the teaching unit: academic merit and achievement are the principal criteria for selection. Recipients of these awards are selected by the University Graduate Honors Awards Committee. The dollar amounts listed are subject to change.

Dean's Scholar Awards provide a \$3,000 award and a teaching unit fellowship to outstanding newly admitted doctoral students interested in pursuing a college or university teaching career.

John Fletcher Hurst Scholar Awards consist of a \$3,500 award in addition to a teaching unit fellowship that includes a stipend and tuition remission. This renewable award is initially available only to new students entering doctoral programs.

Master's Scholar Awards offer a \$2,000 award in addition to a teaching unit fellowship which includes a stipend and tuition remission. This renewable award is available to students entering master's degree programs.

Special Opportunity Awards are fellowships and assistantships awarded to American-born minority students (African-American, Asian, Pacific Islander American, or Hispanic-American). Recipients meet service requirements in their teaching units.

Hall of Nations Scholarships provide up to 18 hours of tuition remission during the academic year only. International students who do not have permanent resident status or U.S. citizenship are eligible to apply. There is no service requirement. The award is renewable if the recipient maintains a superior academic record.

Designated Foundation Awards

Massey Foundation Awards are available only to Canadian citizens. They provide scholarship tuition assistance of up to \$10,000 each year without a service requirement.

United Methodist Graduate Scholarships are available to members of the United Methodist Church who have strong academic records. Award amounts range from 8 to 12 credit hours of remitted tuition per academic year. There is no service requirement.

Need-Based Assistance

Some of the major sources of need-based loans are the Federal Perkins Loans and the Ford Federal Direct Stafford Loan Program. These are described under Federal Loans in this chapter. (For more information see Restricted University Loans, above.)

Employment Opportunities

Residence Hall Advisers carry out advising and administrative duties in the university residence halls. Students selected to serve as hall advisers receive partial tuition remission, a single room, and a monthly stipend for nine months. Interested students should call or write the Office of Residential Life and Housing Services in late fall to begin the application process. Selection is made in the spring for placement the following academic year. Available only to juniors, seniors, and graduate students.

The Federal Work-Study Program provides opportunities to work part-time on campus. (Eligibility restricted to citizens and permanent residents of the United States.)

Students in the Cooperative Education Program receive academic credit and may be paid for faculty-supervised employment. (For more information, see the "Career Center and Cooperative Education Program" chapter in this catalog.)

Regular part-time employment is available both on and off campus. The Career Center provides assistance to students interested in obtaining employment to defray a portion of their college expenses.

Note: international students must obtain an appropriate authorization to work before accepting employment and are advised to consult first with an international student adviser in the Office of International/Intercultural Student Services.

Washington College of Law Scholarships and Grants

Special law school scholarships, established by friends of the law school and the university, provide tuition assistance for full-time students. For more information, call (202) 274-4040.

Veterans' Benefits

American University's degree programs are approved by the Educational Institution Licensure Commission, the state approving agency for the District of Columbia for enrollment of veterans (and eligible dependents of deceased or disabled veterans) for educational benefits under the various federal laws relating to veterans.

Forms and information may be requested from the Office of the Registrar, Asbury Building, second floor, (202) 885-2235.

New Students

New students entering American University must file a Veterans Application for VA Educational Benefits (22-1990) with a certified copy of DD-214 through the Office of the Registrar. Enrollment certification is then sent to the Veterans Administration by the Office of the Registrar to initiate benefits for the enrollment period.

Service men and women wishing to receive VA benefits for the first time must present the Serviceman's Application for VA Educational Benefits (22-1990). This form must be signed by the Education Office and the Commanding Officer.

Transfer students who have received VA educational benefits at another college or place of training and wish to receive VA benefits for the first time at American University should file a Request for Change of Program or Place of Training (22-1995) through the Office of the Registrar. This form will then be sent to the VA's regional office in Washington, D.C. with the Enrollment Certification (22-1999) completed by the university.

Continuing Students

Continuing students need only file the American University VA claim card for educational benefits each semester with the Office of the Registrar. All changes in registration (adds, drops, and withdrawals) must be reported to the Veterans Counselor in the Office of the Registrar.

Payment and Financial Responsibility

With the exception of disabled veterans who are training under Vocational Rehabilitation, all beneficiaries of educational benefits from the VA are personally responsible for the payment of their bills to the university. These persons should come to the

university financially prepared to pay tuition and fees. The VA checks for educational benefits are sent directly to the student or address designated on the American University claim card. Students who wish to receive advance payment must file an advance payment request form. Students who request and are granted advance payment pick up only the first check issued through the Office of the Registrar. Thereafter, the checks are sent directly to the student or address on file with the VA. It takes six to eight weeks from the time of filing a veterans semester claim card with the Office of the Registrar before the first check arrives. Veterans whose claim cards are completely filled in will have their claims processed first. Incomplete claim cards (e.g., no file/claim number) will be processed last.

The Veterans Administration interprets "completion of credits" differently from the university, and this difference should be noted. VA benefits are awarded on the basis of the expected completion of a certain number of credits each semester as stated on the Veteran's Certification Form. Completion is defined to mean grades of A, B, C, D, F, P, or ZF. However, veterans who drop below the anticipated level by receiving a W, L, or N will be in overpayment status, according to the Veterans Administration. Future benefits will be reduced for later periods of enrollment or, should no further enrollment occur, students would have to refund money directly to the Veterans Administration. The VA directs the university to notify them of a change in status for students during or immediately after the end of the month in which the change occurs. Thus, when the Office of the Registrar learns in the third or fourth week of May that a veteran has reduced his or her credit hours of enrollment because of withdrawals, audits, or no grade reported, it notifies the VA immediately after the end of May (in early June). Under mitigating circumstances exceptions to the above policies may be made through the Veterans Administration Regional Office.

While every effort has been made to provide accurate and complete information, changes in federal regulations and university policy may occur at any time without notice, and students should use this material as a general guide.



Student Services

- Academic Support Services
- Campus Life
- Counseling and Health Services
- Intercultural Student Services

Recognizing students' unique needs and the diversity of the student body, the Office of Student Services seeks to integrate students into an inclusive university community and to support and complement student learning inside and outside the classroom in preparation for lifelong learning and global citizenship.

The Office of Student Services is guided in this mission by purposeful assessment of students' characteristics, dedication to service and advocacy for students, and recognition of mutual accountability for our actions. The Office of the Vice President of Student Services is located in Butler Pavilion 401, (202) 885-3310 or (202) 885-3400 (TDD).

The Office of Student Services is committed to cultivating an environment that enriches and supports student development. The office assumes leadership in providing advocacy for students. It provides information, referrals, and other assistance to students, and works closely with academic and administrative units to promote student success. The general goals of the office are achieved through the specific offices and programs of the functional areas described in this chapter.

Note: Students should be aware that policies outlined in the *Student Handbook* are updated on the electronic version of the *Handbook*, which is found at www.american.edu/handbook.

Academic Support Services

The primary purpose of Academic Support Services is to assist students in developing the competencies that are critical for success in the academic setting and beyond. Collaboration with faculty is at the core of its programming and serves to strengthen its benefits for students. Through the services and programs provided, students may acquire specific skills that are directly applicable to the classroom.

Disability Support Services

The staff of Disability Support Services works with persons having temporary or permanent disabilities to promote their full participation in academic programs and campus activities. Support services are intended to remove competitive disadvantages so that students with disabilities may realize their full potential and objectives. This office also provides consultation and in-service training for faculty, staff and students, with the overall goal of ensuring a campus environment that is welcoming to individuals with disabilities. The office is located in Mary Graydon Center 120. For more information call (202) 885-3315.

Judicial Affairs and Mediation Services

The Office of Student Services provides a forum in the Conduct Council for alleged violators of the Rights and Responsibilities and Code of Conduct and/or the Regulations for Student Conduct in the Residence Halls. The Conduct Council is a community review board composed of students, faculty and staff members, providing an excellent experiential learning situation. All students, regardless of their majors, are encouraged to take active roles in the judicial system on campus. (See "Code of Conduct" in the Academic Information and Regulations chapter.)

Another component of the judicial programs is the American University Mediation Services (AUMS). AUMS provides a forum for learning alternative conflict resolution and management skills. Teams of trained faculty, staff and student mediators facilitate sessions for conflict resolution for all members of the American University community. An excellent vehicle for the resolution of interpersonal conflicts, AUMS empowers parties to understand what caused a particular conflict and their respective roles within the conflict. For more information, contact the Office of Judicial Affairs and Mediation Services in Mary Graydon Center 220, (202) 885-3300.

Learning Services

Learning Services, part of the Center for Psychological and Learning Services, offers individual programs and workshops for all university students aimed at improving learning skills essential to academic success in college. Writing skills, time management, speed reading, note-taking, study skills, exam-taking and reading comprehension are just some of the areas targeted

by this office. A program designed for freshmen students with learning disabilities is available, as well as support services for other students with learning disabilities. Learning services are provided free of charge, except for the freshman program. Peer tutors are available for course content tutoring at modest fees. The Center for Psychological and Learning Services is located in Mary Graydon Center 201, (202) 885-3360.

Campus Life

Campus Life supports students through their first-year transition and beyond by integrating them into programs and challenging them to take advantage of opportunities available on campus. Campus Life functions as a liaison between students, staff and faculty to enhance the quality of student life.

Office of Residential Life and Housing Services

The Office of Residential Life and Housing Services (ORLHS) located in the Rockwood Building, is responsible for daily operations in the halls as well as the management of the professional and student staff. Complementing the goals of the Office of Student Services, ORLHS seeks to create and maintain an environment that fosters intellectual, social and emotional growth. The staff works to provide a safe and comfortable living environment encouraging respect, personal responsibility and individual rights.

The Office of Housing Services is responsible for handling applications for student housing, student room assignments, summer housing and conference operations. The Residential Life and Housing Services staff work to oversee minor maintenance repairs. The Office of the Physical Plant is responsible for the physical maintenance of equipment as well as housekeeping in the residence halls.

American University's nine residence halls have distinct characteristics and offer a variety of living arrangements, and all but one have been extensively renovated to provide a pleasant living and learning environment for students. Several special interest housing options are available on campus, including the Community Service Learning Floor, Living Learning Center, Honors Program, and Leonard International/Intercultural.

All visitors must check in at the front desk and be escorted into and through the hall. Residents may not lend their access cards and keys to guests. There are no curfews; 24-hour visitation is the policy in each hall. However, non-resident guests must be escorted at all times. Overnight guests are permitted only with the agreement of the roommate. In all cases, overnight guests are limited to a 3-day stay. Residents are responsible for their guests' behavior and may be charged in lieu of their guests for violations of the Code of Conduct and damage to university property.

Housing is available to all undergraduate students on a first-come, first-served basis. University housing is at a premium, and

students may be placed on a waiting list until space becomes available. For detailed information about each hall, please refer to *Welcome Home: An Introduction to American University's Residence Halls*, available from ORLHS. For further information call (202) 885-3370.

Office of Student Activities/University Union

The Office of Student Activities/University Union, located in Mary Graydon Center 200, is at the heart of the university, serving as a unifying force in the community. Its programs and activities create a coherency between student's academic lives and their lives outside the classroom. Valuing the unique needs and diversity of the student body, the staff seeks to integrate students into an inclusive community and to enhance student experiential learning in preparation for life-long learning and global citizenship. The Office of Student Activities/University Union is comprised of several focus areas, including Community Service, Greek Life, Leadership Development, New Student Programs, Student Clubs and Organizations, and Student Governance. For more information, call (202) 885-3390 or the specific office numbers below.

Community Service

The Office of Community Service maintains a supportive structure that provides a range of opportunities for the diverse members of the university community to challenge their beliefs, explore new cultures, and share their unique experiences through public service. It cultivates a sense of global citizenry that demands both public service and civic action, while supporting and developing responsibly-planned service activities and community partnerships that benefit all parties involved. Students and faculty are challenged to utilize the resources of Washington, D.C. to forge the academic learning connections between classroom and community through service-learning.

Some of the projects and programs that are available to the community are Freshman Service Experience, the Volunteer Clearinghouse, Community Service Network, Community Service Floor, Community Service Learning Projects, Project PEN, Proyecto Amistad, and Lincoln Partners. For more information, call (202) 885-3395.

Greek Life

American University has an active and growing Greek community, which is dedicated to the ideals of academic excellence, community service, leadership, and friendship. Approximately 15 percent of undergraduates are involved in the Greek community. The Interfraternity Council, the Panhellenic Association, and the Pan-Hellenic Council serve as the governing bodies for the fraternities and sororities on campus. For more information call (202) 885-3399.

Leadership Development

The Office of Student Activities/University Union provides programs and services designed to enhance the personal, social, and intellectual growth of students. Developing leadership potential, exploring personal and societal values and participating in university decision-making are critical elements of a well-rounded education. For more information call (202) 885-3399.

New Student Programs

The Office of New Student Programs facilitates the coordination of orientation programs for new freshmen, transfer, graduate, and international students. Through summer, fall and spring orientation programs, the staff assists new students in their transition to all facets of American University. The office also coordinates Family Weekend in October and other programs to enhance the quality of life for all American University students. For more information, call (202) 885-3303.

Student Clubs and Organizations

Many students enhance their collegiate experience by getting involved in student-sponsored clubs and organizations. The Office of Student Activities/University Union recognizes over 130 on-campus student organizations that complement the university's curricular programs and provide opportunities for students to exercise and develop their talents. The organizations span a wide range of interests, including politics, forensics, music, journalism, academics, service, recreation, business, social life, religion, and fellowship. The office staff advises organizations through consultations, workshops, and the *Student Organization Manual*, and assists student organizations in planning and implementing programs.

Membership in student clubs and organizations is open to any registered American University student and can open opportunities to new friendships, networking with faculty and staff, learning opportunities and leadership experience. For more information call (202) 885-3397. A full list of clubs and organizations is available at www.american.edu/studlife/clubs/.

Student government at American University is divided into three separate bodies, each of which is geared to a specific audience. The Student Confederation, Graduate Student Association and Residence Hall Association are all important components of student life.

Student Confederation

The Student Confederation (SC) is the undergraduate student government at American University. The SC represents student interests, advocates for student concerns and provides service to the student body. Some of the most popular events include Welcome Week, Artemas Ward Weekend, and Midnight Madness. The SC office is located in Mary Graydon Center 217, or call (202) 885-6400, or the SC Info Line at (202) 885-6403.

The General Assembly (GA) serves as the legislative branch of the student government. The GA is responsible for allocating student activity fees to various SC departments, enacting legislation to further the interests of undergraduate students, approving rules and regulations governing the SC and acting as a forum for student concerns.

The Student Confederation Club Council (SCCC) is the governing board for social, special interest, sports-related, and religious clubs and organizations. The SCCC is responsible for allocating student activity fees to various clubs and organizations.

The Student Union Board (SUB), is the social programming division of the Student Confederation, booking bands, comedians and other talent, and movies.

The Kennedy Political Union (KPU) is a nonpartisan student lecture bureau of American University. Founded in 1968, KPU has grown into a nationally respected lecture series.

The Black Student Alliance (BSA) serves as the representative of African-American, African and Caribbean students' concerns at American University. Throughout the year, BSA sponsors events and activities surrounding issues of multiculturalism. The organization also functions as a support system for students of color, and as the vehicle through which their concerns can be voiced to the university community.

The International Student Association (ISA) is the elected representative voice for international students attending American University. ISA provides advocacy for international students ensuring that their views and concerns are heard. ISA also promotes the integration of the American and international communities by conducting events which raise awareness about cultural identities, encourage cross-cultural learning and cultural sharing.

The SC Media Board oversees a variety of campus media, including:

- A-TV airs a variety of news, sports and entertainment programs as well as programs from University Network and Channel America. A-TV provides programming to residence hall lounges and rooms except Nebraska Hall and the Tenley Campus.
- *american literary* is published at least once a year, and contains student works of creative art, photography and literature.
- Published each Monday during the fall and spring semesters, *The Eagle* newspaper covers sports, arts and issues of importance to the American University community as well as campus events and news from colleges across the country. Visit The Eagle's Web at www.eagle.american.edu.
- *The Talon*, the American University yearbook, seeks to capture the prevailing issues, events and people which mark each academic year.
- *Uhuru* is the multicultural publication serving the American University community. This bi-monthly publication features articles about and by African, African-American, Asian, Caribbean, Caucasian, Latin, Native American, and other students.
- Broadcasting 24 hours a day, WVAU airs a contemporary music format along with a variety of sports and entertainment programs.

Graduate Student Association

The Graduate Student Association (GSA), which includes the Executive Committee and the General Assembly, is the governing body of American University's graduate students. The GSA's responsibilities include representing graduate students at University Senate meetings, providing a voice for the graduate students to the university administration, and organizing events and projects for the graduate community, including the Faculty Lecture Series, *The Graduate Review*, and the Winter Gala. GSA also supports the events and projects of the schools represented within the Graduate Student Association. The GSA is located in Mary Graydon Center 214, (202) 885-2472.

Residence Hall Association

The Residence Hall Association (RHA) is the student government and program planning organization of the residence halls. RHA works with the Office of Residential Life and Housing Services to ensure that university policies and services are responsive to students' needs. The Executive Board, the highest branch of RHA, is the link between the administration and students. The Executive Board, in conjunction with the hall and floor officers, organizes both hall and campus-wide programs. The Executive Board and hall councils are elected in the spring and serve a one-year term. Floor officers are elected at the beginning of the fall semester and serve a one-year term. Floor officers work with the Resident Assistants (RA) to program activities such as movie nights, study breaks, and forums.

RHA provides both social and educational programming within each hall and across campus. For more information, call (202) 885-1RHA (x1742).

Counseling and Health Services

Counseling and Health Services supports and encourages a comprehensive approach to wellness. Services include primary ambulatory outpatient care through the Student Health Center and counseling and outreach programming through the Center for Psychological and Learning Services. Together, these offices offer students ways to live healthy, productive lives while they are at American University and beyond.

Student Health Center

The Student Health Center (SHC), located on the first floor of Nebraska Hall, provides primary medical care, minor emergency care, gynecological care, immunizations, allergy injections and health education services to students. The SHC fee is included in charges for university housing. Students who live off campus and do not pay residence fees are assessed a \$45.00 charge on their first SHC visit each semester. Routine office visits are included in the health fee, but additional charges will be assessed

for the allergy clinic, TB testing, immunizations and other special services.

The clinical staff consists of registered nurses and physician assistants, supported and supervised by two internal medicine physicians. These primary care practitioners initiate treatment and coordinate all aspects of care, including referrals to specialists when required.

The hours of operation for the fall and spring semesters are Monday through Friday 9:00 a.m. to 4:30 p.m., Tuesday and Thursday evenings 5:00 p.m. to 7:00 p.m. Summer hours are 9:00 a.m. to 12:30 p.m. and 1:30 p.m. to 4:00 p.m. on Monday, Wednesday, Thursday and Friday, and 1:30 p.m. to 4:00 p.m. on Tuesday. Appointments are required for all non-emergency visits. To schedule an appointment, call (202) 885-3380. Evaluation by a screening nurse is available on a walk-in basis.

Immunizations

District of Columbia law requires that all students under age 26, attending schools within the District, provide proof of having had the following immunizations:

- Two vaccinations against Measles, Mumps and Rubella (MMR), given after 1 year of age and at least 30 days apart
- One Tetanus/Diphtheria booster given within the preceding ten years

An immunization form is available through the SHC and should be completed in conjunction with a physician visit in order to consolidate records and update any missing immunizations. Incomplete immunization records, invalid dates, or forms which lack a validating stamp cannot be processed, and will delay registration. Enrolled students may obtain immunizations at the SHC for a nominal charge. Additional information can be obtained by calling (202) 885-3304.

Health Education Programs

The Health Education Program, supported by a Wellness Coalition of interested students, faculty and staff, promotes student health and wellness activities on campus throughout the year. Outreach activities include residence hall programs, a campus-wide Health Fair, alcohol and other drug awareness programs, and general health and women's health peer education teams.

Student Health Insurance

Medical insurance is mandatory for all full-time degree, resident and international students (except those on A, G, and H visas). Students who do not specifically waive medical insurance are automatically billed for the university-sponsored insurance plan. Policy information and insurance ID cards will be mailed to the student's permanent residence.

Medical insurance coverage is available at an additional cost to part-time students carrying at least 6 credit hours, spouses, domestic partners, and children of students enrolled in the university-sponsored plan. For information, call the Student Insurance Office at (202) 885-3378.

Tuition Refund Insurance Plan

The Tuition Refund Plan can minimize financial loss due to medical withdrawal from the University. This elective insurance plan provides coverage for tuition and housing charges. The plan extends and enhances the University's published refund policy. Students are assured a 100 percent tuition refund throughout the term if withdrawal occurs for medical reasons (60 percent refund if the withdrawal is due to a mental/nervous disorder) even after the university's refund policy has expired. Housing charges are refunded on a prorated basis. To participate, applications and fees must be returned before the first day of fall semester classes. For premium and other information, please contact the Student Health Insurance Coordinator (202) 885-3384.

Psychological Services

For personal concerns, Psychological Services, located in the Center for Psychological and Learning Services (CPLS), Mary Graydon Center 201, (202) 885-3360, offers an array of services and programs. CPLS professionals strive to help students make the most of themselves as developing persons, be more effective in their relationships with others, understand feelings and behaviors, and enhance positive traits.

Psychological services are available free of charge for personal matters and may be conducted in individual or group counseling settings. Consistent with professional standards and the DC Mental Health Information Act, discussions are kept confidential. Consultation services and workshops are also available for a variety of psychological concerns.

CPLS also administers the university's national testing program. Students who wish to take the GRE, LSAT, MAT, GMAT, and College-Level Examination Program (CLEP) may come to the Center to obtain information and to register. For more information, see www.american.edu/other.depts/cpls/cpls.htm.

Intercultural Student Services

The primary goal of Intercultural Services is to enhance the quality of student life and to foster one of the university's distinctive educational characteristics, which is its cosmopolitan and multicultural campus population.

The Office of International-Intercultural Student Services (ISS) provides cross-cultural advising and programming to all members of the university community, as well as specialized immigration support services to foreign students and exchange visitors.

ISS administers the United States Immigration and Naturalization Service's (INS) and the U.S. Information Agency's (USIA) authorized international education exchange programs. These programs, also known as the F-1 Non-Immigrant Academic and Language Student Programs and the J-1 Exchange Visitors Programs, assist students, scholars, professors, researchers, and others who come to the university for temporary periods for the purpose of educational exchange.

To assist foreign students, specific and unique support services are provided in pre-arrival, arrival, on-going, and re-entry orientation and guidance; issuance of appropriate certificates of eligibility; assistance regarding academic, social, cultural or personal matters of a cross-cultural nature, practical training and work authorization permits; financial counseling and financial certification; student status letters when required for currency exchange permits, foreign governments, or private sponsors; small emergency loans to foreign students are available through ISS contingent on availability.

For more information, see the International Student Information chapter. Office hours are normally 9:00 a.m. to 5:00 p.m. Monday, Wednesday and Thursday, and 12:00 to 5:00 p.m. on Tuesday and Friday. Refer to the *Schedule of Classes* for extended hours during registration. ISS is located in Butler Pavilion 408, (202) 885-3350.

Kay Spiritual Life Center

The round building at the north end of the quad—the Kay Spiritual Life Center—is an interfaith house of worship and home to a rich array of faith communities, cultural and educational programs, student organizations, feasts, festivals, circles of prayer and activism. In keeping with the university's commitment to inquiry and diversity, the Spiritual Life Center seeks to be not only a center for religious life, but a crossroads where people of conscience, intellect, and spiritual curiosity find a place for their questions, their dreams, and their struggles. The center seeks to foster a climate of interfaith understanding and openness, in which matters of faith and value are recognized as an integral part of human growth and of university life.

Regular services of worship and religious observances are held throughout the year by Baha'i, Buddhist, Catholic, Jewish,

Muslim, Protestant, and Vedic/Hindu communities. In addition, the center sponsors special interfaith celebrations, as well as a host of workshops, panels, retreats, outings, and social action opportunities.

Student organizations involved in the work of the center include: American Students for Israel, Amnesty International, AU Gospel Choir, Baptist Student Fellowship, Bread for the World, Catholic Graduate and Law Student Association, Catholic Student Association, ECO-SENSE, Free Burma Coalition, Habitat for Humanity, Jewish Student Association, Lutheran Student Association, Methodist Student Fellowship, Muslim Student Association, and Reform Jewish Student Association.

Chaplains from the diverse faith traditions assist in organizing events and are available to students, faculty, and staff for counseling and spiritual direction, advisement on issues of faith and ethics, bat and bar mitzvahs, weddings and memorial services, and on-campus programs. Kay Center office hours are from 9:00 AM-5:00 PM, Monday through Friday; however, chaplains are available during most times of the week. For more information contact the Kay Center at (202) 885-3320.

Office of Multicultural Affairs

The Office of Multicultural Affairs (OMA) seeks to enhance the quality of campus life for all American University students by fostering an environment that is welcoming and supportive. OMA provides counseling and tutoring services to African, Asian, Hispanic, and Native American students, and promotes the cultural interests of these minority communities through lectures, seminars, historical tours, receptions, award ceremonies, mentoring programs and festival events. OMA also houses a modest library of historical and cultural materials, as well as career information for undergraduate and graduate students. The Frederick Douglass Scholarship Program, the High School/College Internship Program (HI/SCIP), and the Summer Transition Enrichment Program (STEP) are administered by OMA, located in Butler Pavilion 404. Office hours are 9:00 a.m. to 5:00 p.m. Monday through Friday. For more information call (202) 885-3651 or see www.american.edu/studlife/.

Sexual Minority Resource Center

The Sexual Minority Resource Center (SMRC) was created to heighten awareness of issues dealing with sexual orientation and to provide resources and support to all members of the American University community. SMRC provides heterosexual, homosexual, and bisexual students with a campus resource to learn more about gay issues as well as related information within the DC area.

Office hours may vary during each semester, but SMRC is normally open 10:00 a.m. to 5:00 p.m. Monday through Friday. The office is located in Butler Pavilion 409, (202) 885-3346.

Career Services and Cooperative Education

- Career Planning Services
- Employment Programs
- Cooperative Education Program

The Career Center is located in Butler Pavilion, 5th floor. For more information, call (202) 885-1800 or see www.american.edu/other.depts/career.

Career education is a life-long process and the Career Center is the place to begin. The Career Center offers a sequence of programs designed to accompany and enhance the student's academic studies. These integrated, comprehensive career services for American University students and alumni begin with career planning.

Students are encouraged to use the Career Center's services to develop career awareness as early in their academic programs as possible. The center's Cooperative Education Program enables students obtain field experience related to their education and career goals. The Office of Student Awards & Fellowships helps undergraduate students identify, prepare and apply for a variety of merit-based scholarships, awards, and fellowships.

All Career Center services should be pursued parallel to classroom learning throughout students' academic programs at American University. The following is a year-by-year summary of a beneficial career decision-making process for each year of academic study:

Freshman: Exploring academic majors and career options.

Sophomore: Deciding academic majors, exploring career options, and gaining hands-on experience.

Junior: Focusing on career fields and gaining experience in specific careers.

Senior/Graduate student: Narrowing career options and determining post-graduate goals.

Career Planning Services

Career Advising: Each of the major colleges and schools of the university has a career planning coordinator in the Career Center who advises students about career development and employment issues.

Career Resource Library: Career exploration and job search assistance is provided through an extensive collection of career information, including directories, books, and periodicals. Annotated bibliographies help students identify appropriate resources.

Career Network: More than 1,000 alumni and friends of the university willing to talk with students about career planning are listed by professional field, college major, company, and geographic location.

Employer Files: More than 1,200 companies have provided literature to help students research potential employment sites.

Career Course: To help integrate education and career planning, 21.203 Career Choices: You and Your Future is offered for students who are unsure about their majors or wish to assess their skills, values, and interests for career planning.

Workshops: Workshops and materials are offered on resume writing, interviewing skills, and the job search. These are designed to help students make a planned transition from college to work and to take full advantage of cooperative education and permanent employment opportunities.

Self-Assessment Tools: Career-planning instruments provide an inventory of personal interests and preferences for students to consider as they pursue a career or job search. These include Myers-Briggs Type Indicator, SIGI+, Strong Interest Inventory™, and the Self-Directed Search.

Special Events: Career Center staff host annual events such as Career Discovery Days, Career EXPO, the International Student Job Fair, and Career Quest Week, which bring speakers and employer representatives from a wide variety of organizations to meet with students and exchange information.

Employment Programs

Job Search Orientation: This includes an overview of job search techniques, career advisement, on- and off-campus recruitment, resume referral, and information sessions. The orientation is strongly recommended for students seeking job search assistance.

Job Listings Service: To help students support their studies, the Career Center maintains listing of part-time, temporary, and summer jobs on- and off-campus. Students interested in part-time jobs should inquire at the center as soon as possible after arriving on campus. Full-time professional positions, government, state, local, and organizational job listings, and computerized job listings—more than 50,000 positions are listed each year—are also available.

On-Campus Interviews: Graduating students registered with Career Planning Services have the opportunity to interview for a variety of permanent positions with recruiters who visit campus each year.

Off-Campus Interviews: In addition to on-campus recruitment, graduating students registered with Career Planning Services also gain access to employers by having their resumes referred to specific job openings. Several hundred employers participate in this program each year.

Information Sessions: Sessions offered by employers prior to on-campus interviewing give students the opportunity to learn about the organization, career fields, and the interview process.

Cooperative Education Program

In order to integrate the academic curriculum with professional training, the Career Center's Cooperative Education Program enables students to earn elective credit for field experience related to their education and career goals. Participants may include one or more periods of work experience in their programs of study. Co-op positions are usually paid and can be full or part-time. Positions are with businesses; local, state, or federal governments; or community and social-service organizations.

Full-time faculty from all university departments guide and evaluate students' experiential learning process in the cooperative education program. Cooperative education allows students to test skills and academic learning in the world of work; it also provides for entirely new learning opportunities. Co-op experiences enable students to explore academic and career options, make career decisions, and prepare for entry into either an advanced degree program or the professional job market. Personal development, acquisition of independent learning skills, and a balanced education are significant benefits to students participating in cooperative education.

Eligibility

The program is open to all matriculating undergraduate and graduate students. Applicants must be in good academic standing and must obtain approval from appropriate academic advisers. Students must complete a full year as freshmen, a full semester as transfer students, or 9 credit hours as graduate students before they are eligible. However, they may apply to the program at any time. Additional specific eligibility criteria may be stipulated by schools or departments.

Students must attend an orientation session, complete an application form, and obtain approval signatures before the program's deadlines as published in the semester's *Schedule of Classes*. Working with a co-op coordinator, qualified candidates apply to cooperating employers. Students register in the program once they are selected for a position by an employer.

Application to the program does not imply a guarantee of placement, nor does it obligate students to accept offers of employment. However, once hired under the auspices of the program, a student must complete all employment and academic

obligations agreed to at the time of registration, unless a specific written release is obtained from the director of cooperative education, together with a recommendation of the faculty supervisor.

Degree Credit

Credit earned in the Cooperative Education Program may be applied as elective credit to bachelor's and graduate degree programs. Undergraduate students earn 3 to 6 credit hours for each assignment. Undergraduate students who wish to earn more than 6 hours of credit for a single assignment must petition for approval from the appropriate faculty member and the director of cooperative education. Graduate students must work in jobs specifically related to their major fields and may earn 3 credits. Six credits are sometimes available to graduate students, subject to the approval of their academic advisers (credit restrictions apply in some departments).

All jobs are reviewed and approved for credit by co-op faculty advisers. The credit value depends on the duration of the work periods, the content of the job, and the academic assignments. Students are required to demonstrate what they have learned by means of written journals, papers, reports, portfolios, conferences, or seminars. Specific requirements are set by co-op faculty advisers through their syllabi.

Students working full time under the program are considered full-time students by the university, and they may take only two additional courses during the work term.

Enrollment

Undergraduates enroll in xx.392 Cooperative Education Field Experience (usually 3–9 credits) and graduate students in xx.692 Cooperative Education Field Experience (3–6 credits).

Full-time placements may be for six-month periods (July through December or January through June) or for four-month periods (September through December, January through April, or May through August).

Cooperative Education in the Federal Government

These experiences offer both undergraduate and graduate students special eligibility for federal positions which can lead to noncompetitive appointments to career positions upon successful completion of the student's degree program. This option has become increasingly competitive.

International Cooperative Education

Cooperative education opportunities are available abroad. Students should have a demonstrated knowledge of the language of the country in which they expect to work, and previous work experience. Several months lead time is essential to work toward securing these jobs. Information is available from the Cooperative Education office in the Career Center, 5th floor Butler Pavilion.

Student Awards & Fellowships

For information see "Student Awards & Fellowships" in the Undergraduate Study chapter.

Academic Information and Regulations

- Registration and Class Schedules
- Student Records and Graduation
- Code of Conduct

As part of providing a high-quality education, the university continuously examines its academic requirements. As a result, the information contained in this and other sections of this publication may be revised. Students should consult their deans or department chairs for any new requirements that may affect their individual programs of study.

Academic Integrity Code

The *Academic Integrity Code* for American University describes standards for academic conduct, rights and responsibilities of members of the academic community, and procedures for handling allegations of academic dishonesty. Academic dishonesty as defined by the *Code* includes, but is not limited to: plagiarism, inappropriate collaboration, dishonesty in examinations (in-class or take-home), dishonesty in papers, work done for one course and submitted to another, deliberate falsification of data, interference with other students' work, and copyright violations.

Violations of the *Academic Integrity Code* are treated seriously, with special attention to repeat offenders. After a second determination of guilt is established through formal review by a major teaching unit, a student will be suspended or dismissed.

Penalties for an academic offense may include one or more of the following: resubmission of the work in question, submission of additional work for the course in which the offense occurred, a lowered grade or loss of credit for the work found to be in violation of the *Code*, a failing grade of F or ZF for the course in which the offense occurred, denial of credit for the course in which the offense occurred, suspension for one or more academic terms, including the term in which the offense occurred, and dismissal (for a specified term or permanently) from the university. A notation of some *Code* violations is made on the student's permanent record.

By registering as a student at American University, all students acknowledge their awareness of the *Academic Integrity Code*. Students are responsible for becoming familiar with their rights and responsibilities as defined in the *Code* and are responsible for knowing the requirements for their particular courses (regarding such issues as collaborative work, use of study aids,

or take-home examinations). Students are responsible for learning the conventions of documentation and acknowledgement of sources required in academic discourse.

The *Academic Integrity Code* is available from the Office of the University Registrar, or may be found at www.american.edu/american/registrar/aic.htm

Student Academic Grievance Policy

In the course of academic life, a student may come into disagreement with a faculty member or with the policies and actions of an academic unit as they affect the student's progress toward completion of a course or degree. In cases of complaint or disagreement over academic matters not resolved by consultation among the parties, the university provides the student the right to initiate a grievance procedure.

Students should have protection through orderly procedures against prejudiced or capricious academic evaluation. At the same time, they are responsible for maintaining standards of academic performance established for each course in which they are enrolled. Evaluation of students and the awarding of credit must be based on academic performance professionally judged and not on matters irrelevant to that performance, such as personality, physical disability, age, race, gender, sexual orientation, religion, national origin, degree of political activism, or personal beliefs.

Judgement regarding standards of evaluation for a student's academic performance is a faculty responsibility and is not grievable. Normally, only questions relating to whether a faculty member complied with the stated requirements of the course and applied standards of evaluation fairly and equitably are potentially grievable. Cases involving complaints about grades will be considered only when there is clear evidence that casts significant doubt on the objectivity of the grading process or indicates that the faculty member failed to comply with the stated requirements of the course.

The procedures for consultation and informal resolution, formal process, and appeal for student academic grievances are found in the university's *Academic Regulations*.

Registration and Class Schedules

Registration

Registration is conducted on the dates specified in the academic calendar published in detail in the *Schedule of Classes*. Students who register during advance registration are billed later. During direct registration students pay when they register. In order to register, a student must:

- be admitted to the university or be approved for enrollment for nondegree study
- clear any balances on his or her financial account
- complete the Advisement/Registration Authorization form
- secure approval from an academic adviser
- submit registration forms to the Office of the Registrar
- pay tuition and fees

Students registering after classes have begun must pay a fee of \$50 in addition to the other charges. More detailed information and instructions are published in the *Schedule of Classes*.

Students assume financial and academic responsibility for each course they register for. Students are also responsible for properly registering for the course they intend to take. Attending class and completing the required work do not constitute an official registration. Refunds, cancellation of charges, and release from courses are governed by the refund and withdrawal policies stated in this publication and in the *Schedule of Classes*. Unless a course is canceled by the university, charges for it remain in effect and the student continues to be responsible for completing it unless the student drops the course or withdraws from the university.

The appropriate forms for these actions must be submitted to the Office of the Registrar. The date on which the Registrar receives the student's written notification of drop or withdrawal is the effective date on which academic action, refunds, and cancellation of charges are based. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official withdrawal or course change.

Changes in Registration

A student who finds it necessary to add or drop a course or change a credit value (in a variable-credit course) or grade type in a course in which he or she is already registered may make such an adjustment during the periods specified in the semester's *Schedule of Classes*.

A student may not add a course after the second week of classes for fall or spring (or the equivalent for summer), with the exception of independent reading courses or study projects or cooperative education courses, which may be added through the fourth week of classes. A student may not change a grade option after the second week of classes.

A student may withdraw from a course from the beginning of a semester until the midterm date established by the Registrar. Withdrawal from courses used to satisfy the University Mathe-

matics Requirement requires the approval of an academic adviser based on the placement recommendations made by the Department of Mathematics and Statistics.

When a student withdraws from a course during the first two weeks of a semester, the course will not appear on the academic record; withdrawal thereafter is noted with a W in place of a grade. Withdrawal during a summer session is subject to the same rules, proportionally adjusted. After the midterm date, a course withdrawal will be permitted only with the approval of the dean or dean's designate of the student's school or college. The instructor's approval may be required, but in all cases the dean must confer with the instructor and inform the instructor in writing of the decision. A low or failing grade in the course is not grounds for a late withdrawal.

To effect any of these changes in registration, a Registration Change Form must be submitted to the Office of the Registrar with the appropriate approval signature or signatures. Detailed instructions are provided in the *Schedule of Classes* each term. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official action.

Audit Registration

A student who wishes to attend a class but who does not wish to participate, take examinations, receive a final grade, or receive credit for the course may register as an auditor. Tuition and fees for auditors are the same as those for students registering for credit. Changes to or from audit must be made before the last day to add a course.

Faculty may establish standards of class participation and attendance for auditing that must be met if a student is to remain in audit status.

Alumni Audit Program

Holders of earned degrees from the university may take one nontutorial course each fall, spring, and summer semester as auditors with tuition remitted; a nominal registration fee is charged. An alumnus or alumna wishing to audit a course is limited by the availability of space in the course during the late registration period. Registration under these terms does not include such courses as independent study, laboratory courses, private music instruction, honors courses, or maintaining matriculation. Credit hours are not reflected on the alumnus' transcript, nor is a grade assigned for the class. An alumnus or alumna who wishes to have a course reflected on his or her academic record, or who wishes to receive credit for the course, must enroll through the Registrar's Office as a part-time nondegree student and pay all applicable tuition and registration fees.

Undergraduate Audit Program

Qualified undergraduate students may audit up to 9 undergraduate credit hours free of charge after they have completed 120 credit hours at American University or while enrolled in the semester in which the last course required for a degree is to be

completed. Enrollees in this program must have a cumulative grade point average of 3.50 (on a 4.00 scale) on completion of 90 credit hours at the university. Registration is accomplished during the first two weeks of a semester. Courses taken under this program do not involve tuition, but any special fees (for example, a music fee) must be paid by the student.

Nondegree Student Registration

A student who does not wish or is not ready to pursue a degree program but desires to register for particular courses for which he or she is qualified may be considered by the Special Programs Advising Center for permission to enroll as a nondegree student. Such a student receives full academic credit for courses successfully completed. See the Nondegree Study chapter in this publication for details.

Registration for Special Programs and Courses

Consortium Registration

The Consortium of Universities of the Washington Metropolitan Area combines the resources of twelve area universities and colleges. In cooperation with the Catholic University of America, Gallaudet University, George Mason University, the George Washington University, Georgetown University, Howard University, Marymount University, Mount Vernon College, South-eastern University, Trinity College, the University of the District of Columbia, and the University of Maryland, American University offers qualified degree students the opportunity to enroll for courses at any of these institutions.

With the appropriate approvals, undergraduate and graduate degree students may take courses for residence credit at consortium institutions, providing the course is not offered at American University in a given semester. Off-campus courses, courses in law and medicine, independent study and reading courses, special institutes, and noncredit courses (except ROTC) are excluded from the consortium.

To be eligible for this program, students must be fully admitted degree students, actively enrolled and in good academic standing. Course registration must be approved by the American University dean or department chair of the field of study for which registration is requested and by the Office of the Registrar. Students are responsible for securing approval at the cooperating institution when requested.

American University students must follow the registration procedures published in the *Schedule of Classes* and pay the American University tuition rate. American University students registering for consortium courses at the University of Maryland must also register at the University of Maryland. Students registering for consortium courses at George Washington University will be billed for any special fees (such as lab fees) for the course.

Independent Reading and Study Courses

An Independent Reading course is defined as a course in which a student by prearrangement with an instructor reads a body of material with little formal instruction.

An Independent Study Project is defined as a course in which a student does research on a topic agreed on by the student and the instructor or engages in study deemed worthy of the student's efforts by the instructor responsible for the course.

Registration for these courses is held during the regular registration period for a semester or summer session. A student may add one of these courses until the end of the fourth week of a fall or spring semester or until the end of the second week of a summer session.

Before a student registers for an independently supervised course, the student and faculty member must agree on and document the title, objective, scope, and credit value (1–6 credit hours) of the project to be pursued. The head of the teaching unit must approve the project and the faculty member's involvement, and certify that the project does not duplicate a course being offered in the same semester that would be available to the student. If the course is to be used to fulfill University Honors Program requirements, the approval of the teaching unit's honors coordinator and the approval of the Director of the University Honors Program are required.

It is expected that the student will meet periodically (or correspond if necessary) with the instructor to review progress. Students are generally expected to complete an independently supervised course within the semester of registration. At the discretion of the instructor, however, the time limit may be extended to the end of the second term following the term in which the student registered (including summer).

Students in independently supervised courses may be assigned conventional grades or pass/fail grades, according to the agreement made with the instructor before registration. A temporary grade of IP (in progress) will be assigned by the instructor at the end of the semester in which the student registered if an extension of the time limit has been approved. The IP grade must be resolved to a final grade by the end of the second term following (including summer). Any further extension must be authorized according to the regulations governing grades of Incomplete listed under "Grading System" in this chapter.

Community Service Learning Projects

Undergraduate students may have the opportunity to earn credit for community service performed in conjunction with courses in which they are enrolled. In addition to at least 40 hours of approved field work, community service learning projects require an academic component related to the course with which the service project is associated. Students earn one credit for each community service learning project they successfully complete, with a maximum of three credits applied to graduation. Only the pass/fail grading option is available. Registration follows the same procedure as for independently supervised courses, above. Permission of the instructor of the course is required. The Office of Student Services certifies community service organizations and provides orientation sessions for students.

Withdrawal from the University

Degree-seeking students who wish to withdraw from the university must go to the Registrar's Office to complete a Withdrawal Request form, for an exit interview and counseling, and for information on the refund policies and procedures of the university.

Nondegree students who wish to withdraw from the university should complete a drop form for each course for which they are registered and submit the forms to the Office of the Registrar.

Student Responsibility

Students are responsible for their behavior, academic and otherwise, at American University. American University expects that students, as mature members of the academic community, will adhere to the highest standards of personal and academic integrity and good taste.

To protect their academic status, students should seek the appropriate approval of their academic program advisers. It is highly recommended that students keep their own records of all transactions with the university (grade reports, registration schedules and changes, incomplete forms, etc.).

It is also advisable to keep copies of all tests and papers submitted in fulfillment of course work.

University Liability

Faculty, students, staff, and guests are responsible for their personal property, clothing, and possessions. The university does not carry any insurance to cover losses of such articles nor does it assume any responsibility for such losses.

Class Schedules

Course Numbers

Each course is designated by a five-digit number. The digits to the left of the decimal point represent either the teaching unit offering the course or an area within such an academic unit: e.g. 03.xxx Anthropology; 19.xxx Economics; 07.xxx Art History. The last three numbers identify the level of the course as follows: xx.001–xx.099 = no degree credit; xx.100–xx.499 = undergraduate degree credit; xx.500–xx.599 = graduate courses to which advanced undergraduate students may be admitted; xx.600–xx.799 = graduate courses to which undergraduate students usually are not admitted.

Off-campus courses carry the letter *O* as a prefix to the teaching unit code. Study abroad courses also have a letter prefix to denote location.

Credit Hour Value

All undergraduate and graduate courses are valued in credit hours. Generally, each credit hour is equal to 50 minutes of class instruction a week.

Course Descriptions and Syllabuses

Descriptions of permanent courses currently in the university curriculum are listed by course number in this catalog. Nonrecurring topics course descriptions are published each semester in the *Schedule of Classes*. Course syllabuses are available from department offices.

Course Prerequisites

Many courses call for a minimum background of knowledge, as indicated by prerequisite courses cited in individual descriptions. Titles and numbers are those of American University courses; equivalent courses satisfactorily completed at other accredited institutions also meet prerequisite requirements by transfer credit.

Students are responsible for entering the class with the required competence. Thus, prerequisites warn students of the knowledge they are to bring with them in order to meet the expected standards of performance.

Class Periods

Day classes, except those on Wednesday and Saturday, ordinarily meet two days a week for 75 minutes a meeting. Wednesday classes ordinarily meet once a week for two hours and 30 minutes. Some classes meet three times a week for 50 or 60 minutes a meeting. Evening classes ordinarily meet once a week for two hours and 30 minutes or twice a week for 75 minutes a meeting. Classes at the .600- and .700-level may, in some cases, meet for a total of two hours a week at the discretion of the teaching unit concerned.

Courses involving laboratory, studio, discussion groups, or workshops may vary from these schedules. Independent reading courses, study projects, internships, and similar kinds of study opportunities meet according to the special arrangement with the school, department, or faculty members concerned.

Emergency Cancellation of Classes

Classes at American University are expected to meet according to the announced schedule and no instructor is authorized to change the day, hour, or place of any meeting. Unless cancellation of classes is announced publicly, classes will meet. When cancellation of classes is necessary, instructors are expected to arrange for additional reading, study assignments, or class meetings to compensate for attendance time lost.

Cancellation of Courses

Occasionally it is necessary to cancel a scheduled course because of low enrollment, the last-minute unavailability of an instructor, or other unavoidable reasons. Every effort is made to announce the cancellation before the first class meeting, but this is not always possible.

If a course is canceled, a student who does not choose to transfer to another course may receive a full refund of the tuition and fees paid for the canceled course by completing a refund request form in the Office of Student Accounts.

Class Attendance

The university considers class attendance a matter best left to the discretion of the individual instructor. It is expected, however, that faculty members who have a particular attendance policy will announce that policy at the first few class meetings each semester.

Veterans and others receiving government benefits are reminded that the paying agency may have specific attendance policies.

Student Records and Graduation

Permanent Record

A permanent record, reflecting academic achievement, is maintained in the Office of the Registrar for each student who registers at the university. Information needed for the continuing evaluation of the progress of a student, including grades earned, is sent by the University Registrar to the dean of the student's college or school as it becomes available.

Name Change

The student's name entered on the permanent record may be changed if the name has been legally changed and if the change is supported by court order. Changes of name on the permanent records will be made for currently enrolled students only. Diplomas may not be changed or reissued.

Transcripts

Students may obtain transcripts of their academic records from the Office of the Registrar. Transcripts will be released only on the signed request or release of the student concerned.

The university will not issue a transcript that reflects only a part of the student's record, nor will it make copies of transcripts on file from other colleges and universities.

Certification of Enrollment

The Office of the Registrar supplies, on request of a currently enrolled student, certification of certain academic data concerning the records and status of the student. These certifications are used for Department of Education and scholarship forms, employment applications, and so forth. They are not to be confused with transcripts of the student's permanent academic record.

Confidentiality of Student Records

American University complies with the Family Educational Rights and Privacy Act of 1974 (FERPA). Students have the following rights regarding their official education records: to have access to their educational records, to consent to release a record to a third-party, to challenge information contained in the education record, and to be notified of their privacy rights.

All official student education records maintained by the academic and administrative offices of American University are considered confidential, and only such information as is necessary to the normal operations of the university is maintained in official student education records. Generally, university academic and administrative personnel having a legitimate educational interest and who need access to official student education records to perform their normally assigned functions may review the records.

Each student shall have the right to inspect his or her own official student education records personally, subject only to reasonable restrictions as to time, place, and supervision, by submitting a request in writing.

Students may authorize by written consent access to third parties to review official education records. Educational record information shall only be transferred to third-parties on the condition that they are not permitted to disclose the information to others without written consent of the concerned student. Parent(s) of a dependent student may have access to the official student record after filing an affidavit with the office from which the parent(s) is seeking information that the student is a dependent for income tax purposes. The university must release records in compliance with a court order or any other lawfully issued subpoena, after making reasonable effect to notify the concerned student in writing.

The university may verify or release directory information, including name, addresses, telephone numbers, date and place of birth, dates of attendance, major field of study and class, date of graduation, degrees and honor received, participation in officially recognized university activities, height and weight (members of athletic teams), and photographs. Students who object to release of directory information should notify the Office of the Registrar in writing.

The university's full policy on the confidentiality of student records may be found in Academic Regulation 90.10.00.

Grading System

Calculated in the Grade Point Average:

Grade	Quality Points
A (Excellent)	4.0
A-	3.7
B+	3.3
B (Good)	3.0
B-	2.7
C+	2.3
C (Satisfactory)	2.0
C-	1.7
D (Poor)	1.0
F (Fail)0
X (administrative penalty)*0

*The X grade is assigned by the instructor in lieu of an F when a student never attended or ceased attending the class, rendering an assessment of academic performance impossible.

Not Calculated in the Grade Point Average:

I	incomplete
IP	in progress
(for a course for which a grade is not necessarily due at the end of the semester, e.g. independent study)	
L	auditor (no credit)
N	no grade reported by instructor or invalid grade
P	pass
W	withdrawal
ZF	fail on pass/fail option
ZL	administrative withdrawal from audit
ZX	fail (administrative penalty) on pass/fail option

Grade Point Average

The cumulative grade point average includes only those courses taken for conventional grades (A through F). Courses below the 100-level or taken pass/fail are not included in the grade point average, nor are grades of Incomplete (I). See also "Repetition of Courses" below.

Credit accepted for transfer from another institution is included in the total amount of credit applicable to degree requirements, but grades earned in such courses are not recorded on the permanent record at American University and are not used in computing the cumulative grade point average needed for graduation.

Pass/Fail

For undergraduate students, the grade of P indicates a quality of performance no less than C (2.00) on a conventional grading scale. For graduate students, the grade of P indicates performance equivalent to a B (3.00) or better on a conventional grading scale. Performance below these levels is reported as ZF.

Neither the P grade nor the ZF or ZX grade is calculated in the grade point average. Degree credit, however, is received with the grade of P.

Incomplete Grades

At the discretion of the faculty member, the grade of I (Incomplete) may be given to a student who, because of extenuating circumstances, is unable to complete the course during a semester. The grade of Incomplete may be given only if the student is receiving a passing grade for the course work completed. Arrangements for a grade of Incomplete must be made in advance of the final examination. An Incomplete Contract form detailing what work is to be submitted, the deadlines for such submission, and a grade to be substituted for the I should submission deadlines not be met is signed by both the student and the faculty member. The submission deadline should not extend beyond the last day of the following semester (not counting summer).

No grade of I will be recognized by the Office of the Registrar without the proper documentation. On completion of the requirements of the course within the time specified on the Incomplete Contract form, the grade of I must be resolved to a grade of A through F, P, or ZF. Unless resolved by the faculty member to one of these grades, the substitute grade specified on the Incomplete Contract form will be inserted as a final grade in place of the I by the Office of the Registrar. A W may not be given to remove a grade of I. An I may not stand as a permanent grade. (For regulations pertaining to independent reading courses and independent study projects, see the appropriate section in this publication.)

Changes in Grades

Once reported, a grade may not be changed except to remove a grade of I (Incomplete) as stated above, or to correct a grade recorded in error. To remove a grade recorded incorrectly, the

faculty member must certify in writing to the Office of the Registrar that an error was made.

Repetition of Courses

Whenever a course is repeated, each attempt, including the final grade, is entered separately on the permanent academic record. Unless specifically indicated to the contrary, however, only one successful attempt of a course is counted toward fulfillment of graduation credit requirements. With the exception of the Freshman Forgiveness rule (see the Undergraduate Study chapter in this publication), the grades received in all attempts are considered in the computation of the undergraduate cumulative grade point average.

Graduation

The university confers degrees and issues diplomas at the end of the fall, spring, and summer terms. Formal commencement ceremonies are held in January for fall degree candidates and degree recipients from the preceding summer, and in May for spring degree candidates.

Candidates for degrees file an Application for Graduation form in the Records Services section of the Office of the Registrar during the registration period for the last expected term of study.

Only after application for graduation has been made can the Office of the Registrar begin processing the necessary information for final certification of graduation. Students who fail to complete all degree requirements by the end of the term for which they applied to graduate must reapply in order to graduate later.

Graduate students are advised also to consult the more detailed information about comprehensive examinations, thesis, and dissertation deadlines, etc., available from academic offices.

Conferral of Degrees and Commencement

Only students who successfully complete degree requirements by the end of the term for which they have applied (or reapplied) to graduate are certified for conferral of a degree. In witness of the degree conferred, the permanent records of the graduates are appropriately noted with a statement of graduation and their diplomas are released.

All candidates for degrees whose academic records indicate that they can satisfy degree requirements by the end of the term for which they have applied are permitted to participate in commencement ceremonies. Students who are eligible to receive summer or fall degrees are recognized in the winter ceremony; those who appear eligible to receive spring degrees are recognized at the spring ceremony. For fall and spring degree candidates, final certification for the degree is not made until after the ceremonies have been held. Participation in a commencement ceremony does not itself constitute conferral of a degree, nor does it imply an obligation on the part of the university to award a degree before all requirements have been met and certified.

Rights, Responsibilities, and Code of Conduct

As adopted by the University Senate at its February 5, 1975 meeting and with the concurrence of the Provost, February 18, 1975. Revised 1986, 1989, 1991, 1993, 1994 and 1997.

Preamble

Members of the American University Community live, work, and study together in an institutional framework in pursuit of truth and the dissemination of knowledge. Freedom of inquiry and intellectual endeavor can flourish only in a community in which the members are united in their mutual search for intellectual growth.

The pursuit of truth in a setting of free inquiry requires an institutional framework in which each member of the University community must recognize and be assured of the academic freedom and the personal rights and liberties of all the members of the community—for themselves and for each other. The preservation of academic freedom and personal rights and liberties in the fullest sense of those expressions are the responsibilities of each and every member of the Community—in a real sense these freedoms and responsibilities are indispensable to the University community.

If the purposes of the University and its community are to be realized and advanced, the rights, responsibilities, and reasonable standards of conduct essential to a University community must be set forth.

The Rights, Responsibilities, and Code of Conduct of American University hereinafter promulgated and set forth by the University Senate with the approval of the President and the Provost are established for the American University community.

Part I: Rights and Responsibilities

1. No member of the University Community shall be deprived of academic freedoms, personal rights, and liberties without due and fair processes of applicable University regulations.
2. No disciplinary sanctions may be imposed upon any member of the University Community under authority of the University without fair and due process provided.
3. Each student has a duty to understand the rules and regulations set forth by the University. Ignorance of a rule or regulation shall not be an acceptable defense by the Conduct Council Hearing Board.

Part II: Code of Conduct

Misconduct under this code for which the students are subject to University discipline is defined as follows:

- (a) Physical abuse of any person, including, but not limited to, sexual assault and abuse, on University premises or at University sponsored events or functions.
- (b) Conduct which threatens or endangers the health or safety of any person on University premises or at University sponsored events or functions.
- (c) Theft or unauthorized taking of University property or other property on University premises.
- (d) Possession of stolen or unauthorized property on University premises or at University sponsored events or functions.
- (e) Willful, wanton, or reckless damage to University premises or property, or other property on University premises.
- (f) In nonacademic University matters, dishonesty or knowingly furnishing false information.
- (g) Fraud, forgery, alteration, or unauthorized use of documents, University records, or instruments of identity with the intent to defraud or deceive.
- (h) Possession of fraudulent, forged, or altered instruments of identification on University premises or at University sponsored events or functions.
- (i) Intentional obstruction or disruption of teaching, research, administration, disciplinary proceedings, or other University activities, including public service functions and other authorized activities on University premises.
- (j) Tampering, unauthorized or fraudulent use of campus telephones or access codes, University computers, network systems, or computer files as defined by University policy.
- (k) Entry or attempt to enter without lawful authority any dwelling, building, or facility on University premises, against the will of the lawful occupant or of the person lawfully in charge thereof, or being therein or thereon, without lawful authority to remain, and refusing to quit the same on demand of the lawful occupant or of the person lawfully in charge thereof.
- (l) Failure to comply with published University policy or regulations including rules governing the residential halls, residential hall contract or regulations relating to use of university facilities.

- (m) Adjudicated violations of District of Columbia and federal law (including acts declared unlawful relating to narcotic drugs, dangerous drugs, alcoholic beverages, and gambling) on University premises or at University sponsored event and functions.
- (n) Keeping, using, possessing, selling, or distributing of any firearms, fireworks, explosives, or dangerous weapons on University premises or in University residence halls or at University sponsored functions; or any other materials or substances which are prohibited by law with the sole exception of law enforcement officials duly authorized by law to possess firearms for the performance of their duties.
- (o) Alcohol and drug violations as defined by University policy.
- (p) Gambling or other illegal or unauthorized games or contests of chance, on University premises and in University residence halls or at University sponsored functions.
- (q) Unauthorized soliciting or canvassing, by any individual, group, or organization on University premises or in University residence halls.
- (r) Unauthorized use of the University's corporate name, which is the property of the University, by any person, persons, or organizations.
- (s) Failure to be fully responsible for the behavior of guests during university functions or activities, and on University premises or in University residence halls. A guest is defined as any person that is not a University staff, student, or faculty member.

- (t) Harassment or intimidation.
- (u) Hazing as defined by University policy.
- (v) To abuse computer equipment, (e.g., computer stalking and harassment, stealing, deleting information, and Internet theft or knowingly introducing a computer virus) or to gain unauthorized access to computer resources on campus.
- (w) To tamper with telephone equipment, or to falsely use telephone credit cards or otherwise fraudulently use campus telephones.
- (x) Failing to comply with direction of University official acting in performance of his/her duties.
- (y) Violations of published rules governing the University residence halls.

Regulations for Student Conduct in Residence Halls

The Regulations for Student Conduct in American University Residence Halls are based on the American University Code of Conduct, and are incorporated as an addendum to that document by university policy. The regulations are printed in their entirety in the *Student Handbook*, which can be obtained through the Office of the Dean of Students, Mary Graydon Center 220, (202) 885-3300, and in an electronic version at www.american.edu/handbook.

College of Arts and Sciences

Acting Dean Howard M. Wachtel

Acting Associate Dean for Academic Affairs

David C. Culver

Associate Dean for Budget and Administration

Kathleen Kennedy-Corey

Assistant Dean for Recruitment and Student Affairs

Susan Hertz

Academic Counselors Marla Boren, Carl E. Cook, Sara Wilson

The mission of the College of Arts and Sciences is to inspire and invigorate the creative potential of students and faculty to perceive, conceptualize, and act. In pursuing these goals, we are dedicated to preserving civilization's accumulated accomplishments as expressed through the arts, humanities, sciences, and social sciences. We are further dedicated to expanding knowledge through the original contributions of faculty and students. In developing the professional applicability of our programs, we attest to and demonstrate our immediate relevance to the larger world.

Members of the College of Arts and Sciences community work collaboratively to achieve their academic, professional, and personal objectives. In this spirit, the college has established a proud tradition of combining outstanding teaching with research excellence, through which we freely explore the past and present in order to better shape the future. Students learn to examine Western and non-Western cultures in their many aspects; to appreciate scientific inquiry; to master written and oral expression; to develop the critical ability to analyze and synthesize information; and to build an understanding of the moral and ethical dimensions that should inform all individual and collective decision-making. Working with faculty and peer mentors, as well as with professional academic counselors, students select courses, majors, and programs of study to achieve these goals.

The college takes particular pride in the broad range of its programs and in its interactive approach to learning. Our twenty units include: the Departments of Anthropology, Art, Biology, Chemistry, Computer Science and Information Systems, Economics, Health and Fitness, History, Language and

Foreign Studies, Literature, Mathematics and Statistics, Performing Arts, Philosophy and Religion, Physics, Psychology, and Sociology; the School of Education; and programs in American Studies, Jewish Studies, and Women's and Gender Studies. We offer master's programs in seventeen fields, and doctorates in nine fields. Eighty-four percent of the faculty hold doctorates; the remainder hold appropriate terminal degrees in their disciplines. The faculty's achievements are also reflected in their strong record of publications, grants, and scholarly awards in teaching and research. Our varied and rigorous curricular offerings reaffirm the values and ideals of traditional, comprehensive arts and sciences education.

The College of Arts and Sciences draws on the educational resources of Washington, D.C.—social, cultural, artistic, and scientific—that bring a unique dimension to intellectual inquiry. These include the John F. Kennedy Center for the Performing Arts, the Library of Congress, the Smithsonian Institution, the National Academy of Sciences, the National Aeronautics and Space Administration, the National Archives, the World Bank, and foreign embassies. Through off-campus visits, distinguished lecturers, and field experiences such as co-ops and internships, the college creates a "Washington Connection" that enhances traditional classroom learning. These experiences outside of the classroom help students discover how liberal arts perspectives enable them to create a broadened vision and understanding as they acquire the knowledge and skills appropriate to the fulfillment of life as responsible and educated citizens of the world.

Faculty

The College of Arts and Sciences has a distinguished teacher-scholar faculty of some 264 full-time professors and approximately 268 adjunct professors. Experts in their own fields, they have included ambassadors, advisers to presidents, world-renowned performers, national press figures, distinguished scientists, recognized artists and composers, pioneers in special education and learning theories, and consultants to major organizations, corporations, and even nations. Each year the college invites professors from other institutions, American and foreign, as well as artists in residence, to join the faculty.

Undergraduate Study

Academic Advisement

The college challenges students to assume substantial responsibility for defining their educational goals, yet provides careful professional guidance to help them respond to the challenge. Undergraduates plan their academic programs with faculty advisers or academic counselors according to their interests, vocational plans, and academic maturity. Before they enroll in classes, first-semester freshmen choose courses with the assistance of a detailed curriculum guide. During freshman orientation, students are assigned faculty mentors who advise them until they choose their majors, usually by the end of the sophomore year. After students formally declare their majors, they are advised by faculty advisers from their major departments. Transfer students go to the departments of their intended majors for academic advisement. If undecided on a major, transfer students are advised by a counselor in the Office of the Dean. Any student needing additional assistance from an academic counselor or dean of the College of Arts and Sciences should make an appointment through the Academic Affairs assistant in Gray Hall 121, (202) 885-2453.

Associate in Arts (A.A.)

This program is designed to serve the educational needs of high school graduates who seek professional or personal advancement through either full- or part-time study. Some students do not or cannot remain in college for four years, yet desire to complete a degree program. The Associate in Arts degree may be awarded after successful completion of two years' study or the equivalent.

Admission to the Program

Any student admitted to degree status at American University is eligible for admission to this program.

University Requirements

- A total of 60 credit hours with grades of C or better
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 24 credit hours to include one foundation course in each of the five curricular areas and one second-level course in three of the five curricular areas, in an approved sequence.

No more than 6 credit hours may be taken in the same discipline.

Bachelor of Arts in Liberal Studies

A Bachelor of Arts in Liberal Studies is offered by the College of Arts and Sciences. The degree program is designed to serve the educational needs of adults who seek professional or personal advancement through either full- or part-time study. For more information, see the International and Special Programs chapter in this catalog.

Foreign Language

The College of Arts and Sciences encourages students to gain proficiency in at least one foreign language. It is natural for students embarking on a career in international relations, study of the humanities, specialization in minority groups in the United States, and those with many other interests to concentrate on language study. Graduate study will often require proficiency in one or more foreign languages.

Internships and Cooperative Education

Internship and cooperative education programs, which engage the student in practical experience in its most intimate terms, support learning and on-the-job training. Interns work in many organizations in both the public and the private sectors in the Washington area. The growing number of internships in the college is a convincing testimony not only to their popularity, but also to their success. For more information on the cooperative education program see the Career Center and Cooperative Education chapter in this catalog.

Living-Learning Center

Traditionally, classrooms have been used for learning and residence halls have been used for living. The Living-Learning Center integrates these two experiences into an enriched education program for students who live on a designated floor.

The small classes in the center's suite of rooms and the informal atmosphere of the residence hall encourage group interaction and a close relationship between students and faculty. Study facilities in the center provide participants with a convenient and comfortable place to study and meet friends. Students take two courses offered by the center and select other courses from those offered by the teaching units of the college or other schools.

Majors

By the end of the sophomore year, if not before, CAS students are expected to declare an academic major. In this field the student pursues study in-depth and synthesizes academic knowledge. Major programs are described under departmental sections of this chapter. A student should become familiar with departmental requirements and regulations as stated in this publication. When making a formal declaration of major, students should ask to be assigned a major academic adviser who will supervise their studies until graduation. Students interested in the natural sciences, mathematics, music, and art need to take specific courses in the freshman year if they intend to complete a degree in eight semesters. Such students should declare their interests as soon as possible and seek explicit counseling from the appropriate department.

Interdisciplinary Major

This program permits College of Arts and Sciences undergraduates to complete an interdisciplinary major according to their needs, abilities, and interests. A program is formulated with the advice and approval of three faculty members from disciplines relevant to the student's defined emphasis, and is subject to the review and approval of the dean.

The initiative lies with the student, who is responsible for determining the concept or theme on which the program is to center. With the three faculty members, the student determines the requirements of the chosen concentration and identifies a sequence of course work that fulfills the program's objectives. The program must be formulated in a written statement no later than the first semester of the junior year. For more information, refer to the Interdisciplinary Programs chapter.

Minors

Undergraduate students may earn a minor in most departments and programs of the College of Arts and Sciences. For all minors at least 9 credit hours of the stated requirements must be taken in residence at American University and a minimum of 12 credit hours must be unique to the minor. For more information see the Undergraduate Study chapter. For descriptions of specific minor programs, see the individual departmental listings below.

Preprofessional Programs

The preprofessional programs in engineering, law, and medicine and dentistry are described in separate sections of this chapter. Pre-theology students find the university's relationship with the Wesley Theological Seminary beneficial, and the Kay Spiritual Life Center directs an innovative program of religious activities that complements preprofessional studies in religion.

American Studies

Director Edward Smith

Faculty from the Anthropology Department and other schools and departments of the university teach in the program.

The American Studies program offers students the opportunity to explore American culture through many paths, including America's intellectual traditions, creative arts, popular media, material culture, ethnic variety, folklore, social structure, and social change. Students learn to draw together the tools and insights of other disciplines to capture the complexities of American society, and to discover what Americans share as well as how they differ. In addition to foundation courses in the program, students choose one area of particular interest to them. Some decide to concentrate in a field such as literature, business, journalism, anthropology, history, or art. Others create a more personalized specialty such as women's studies, African-American studies, or urban affairs.

All students learn to use and appreciate Washington's research centers and cultural resources, including the Library of Congress, the National Archives, the Smithsonian Institution, and the city's many museums, and many study the city itself. Most students work at internships during their senior year in such places as Congress, the Kennedy Center, the Smithsonian, or Common Cause.

The goals of the American Studies program are to help each student develop an area of expertise and to build the skills

Study Abroad

A variety of study abroad opportunities are available to students in the College of Arts and Sciences. For more information see the International and Special Programs chapter in this catalog or consult the World Capitals Program office at (202) 895-4900.

Graduate Study

The graduate programs of the College of Arts and Sciences are directed toward the development of highly competent scientists, sensitive teachers, and critical scholars. To achieve this objective, the college provides an academic setting and climate favorable to the free interchange of ideas and the disciplined exploration and testing of the most seminal of these notions.

The primary function of this collaborative interchange between mature and maturing scholars is to enhance the latter's understanding of, and sensitivity to, the spirit and styles of intellectual problems of their own choosing and to seek their solution. These individually-defined problems and the creative inquiry they generate are the ultimate influence for the fashioning of each student's program of graduate study in the college. See the specific program descriptions under individual departments of the college below. Also, see the Graduate Study chapter for information on admission requirements and academic regulations.

for thinking critically, writing clearly, and untangling the relationship between large cultural forces and ordinary peoples' life experiences. Program graduates work in such diverse fields as journalism, local or national government, foreign service, teaching, museums, private business, and social services. Many students go on to graduate study or to law school.

B.A. in American Studies

Admission to the Program

Formal admission to the major requires a grade point average of 2.50 (on a 4.00 scale) in two courses related to the major.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 43 credit hours with grades of C or better

Course Requirements

- 02.205 American Dreams/American Lives 2:2 (3)
- 02.400 Interpreting American Culture (4)
- 03.201 Cultural Anthropology (3)
- Nine credit hours from the following:
 - 23.210 Survey of American Literature I (3)
 - 23.211 Survey of American Literature II (3)
 - 29.205 American Encounters: 1492–1865 2:2 (3)
 - 29.206 The U.S. from Emancipation to World War II (3)
- Twelve credit hours of courses dealing with some aspect of American life selected from a single department or related departments
- Nine additional credit hours in American studies (02.xxx) courses at the 300 level or above, excluding independent study and internships
- One of the following as a senior project:
 - 02.410 Senior Thesis I (3)
 - 02.411 Senior Thesis II (3)
 - 02.491 Internship in American Studies (3–6)

Anthropology

Chair Richard J. Dent

Full-Time Faculty

Professor Emeritus/a J.J. Bodine, K. Halpem, G.L. Harris, R.H. Landman, H.C. Moore

Professor W.L. Leap, C.W. McNett, Jr., B. Williams

Associate Professor G.L. Burkhart, R.J. Dent, L. Gill, D.B. Koenig

Assistant Professor J. Gero, E. Sheehan, E. Smith

Applied Anthropologist in Residence D. Gross, G. Schafft

Anthropology explores exciting questions about what is both universal and unique in the human condition. Anthropology, by its very nature, is a consciously nonsexist, nonracist, and nonelitist discipline; long ago anthropologists learned how to appreciate the variety of social and cultural systems in the world and the importance of looking at the human experience from various perspectives.

Different types of anthropologists explore these issues from different points of view. Cultural and social anthropologists, for example, untangle the richness of economic patterns, social systems, arts, and values of peoples around the world. Archaeologists help communities document and preserve the full detail of their history and prehistory. Physical anthropologists explore the dynamics of human evolution and study nutrition, health, and illness in their cultural contexts. Linguists examine different languages to see how linguistic structures affect speakers' perceptions of the world around them.

The anthropology program at American University introduces students to research in these and other areas while involving students in training programs and on-the-job

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in American Studies

Requirements

- 02.205 American Dreams/American Lives 2:2 (3)
- 02.400 Interpreting American Culture (4)
- 03.201 Cultural Anthropology (3)
- Twelve credit hours in American studies (02.xxx) at the 300 level or above

experiences in which research can be applied to practical tasks. Internships within government or private agencies can be arranged for qualified students at all degree levels. Washington, D.C. is an international city, replete with museums, libraries, embassies, and other sources for cross-cultural research. Anthropology faculty are actively involved in their own basic and applied research tasks, and students are included in project activities whenever possible.

Undergraduates will find it easy to coordinate a major or minor in anthropology with programs in other teaching units. Graduate students may choose between an M.A. in Anthropology or Applied Anthropology, or the doctoral program, depending on their background, career interests, and professional goals.

B.A. in Anthropology

Admission to the Program

Formal admission to the major by the department's undergraduate studies director requires a cumulative grade point average of 2.00 (on a 4.00 scale) and a grade point average of 2.00 or higher in two anthropology courses.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.

- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 42 credit hours with grades of C or better
- If a student's career plans require skill in a foreign language, a cluster of courses in a second discipline, field experience, or some other special preparation, arrangements will be made in discussion with the undergraduate adviser.

Course Requirements

- 03.251 Perspectives in Cultural Anthropology (3)
- 03.252 Human Origins (3)
- 03.253 Introduction to Archaeology (3)
- 03.254 Language and Culture (3)
- 03.339 Culture Area Analysis (3)
- 03.445 Developments in Anthropological Theory (3)
- 03.450 Senior Seminar (3)
- 03.552 Anthropological Research Methods (3)
- Four courses chosen from the following:

Comparison and Analysis

- 03.200 Cities in Global Perspective (3)
- 03.210 Roots of Racism and Interracial Harmony 3:2 (3)
- 03.215 Sex, Gender, and Culture 3:2 (3)
- 03.220 Living in Multicultural Societies 3:2 (3)
- 03.225 Language and Human Experience 1:2 (3)
- 03.230 India: Its Living Traditions 3:2 (3)
- 03.331 Human Variation (3)
- 03.335 Culture and the Self (3)
- 03.336 Social Structure (3)
- 03.339 Culture Area Analysis (3) (may be repeated for credit if topic is different)
- 03.342 Women and Work (3)
- 03.350 Special Topics (3) (if taken more than once, topic must be different)
- 03.430 Magic, Witchcraft, and Religion (3)
- 03.431 Taboos (3)
- 03.498 Senior Thesis in Anthropology (3–6)
- 03.531 Archaeology (3) (may be repeated for credit if topic is different)
- 03.532 Culture Change (3)
- 03.534 Economic Anthropology (3)
- 03.535 Ethnicity (3)
- 03.537 Topics in Language and Culture (3)

- Two courses, one from each of the following groups:

Specialized Methods and Techniques

- 03.531 Archaeology: Artifact Analysis (3)
- 03.550 Ethnographic Field Methods (3)
- 03.553 Data Banking and Multivariate Techniques (3)
- 03.560 Summer Field School: Archaeology (3–9)
- 42.202 Basic Statistics (4)
- 42.502 Introduction to Mathematical Statistics (3)

Practical and Applied

- 03.392 Cooperative Education Field Experience (3–9)

- 03.491 Internship in Anthropology (1–6)
- 03.542 Principles of Applied Anthropology (3)
- 03.543 Anthropology of Development (3)
- 03.544 Topics in Applied Anthropology (3)

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department, including a Senior Honors Thesis and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Anthropology

Requirements

- 03.251 Perspectives in Cultural Anthropology (3)
- Two courses from the following:
 - 03.252 Human Origins (3)
 - 03.253 Introduction to Archaeology (3)
 - 03.254 Language and Culture (3)
- Three additional courses chosen at the 300 level or higher in consultation with a member of the departmental faculty

Minor in Applied Anthropology

Requirements

- 03.251 Perspectives in Cultural Anthropology (3)
- 03.542 Principles of Applied Anthropology (3) (taken after at least 6 credit hours of anthropology courses have been completed.)
- An additional 12 credit hours, at least 9 of which must be at the 300 level or above, chosen from at least two subfields (socio-cultural, linguistic, archaeological, physical) in consultation with an adviser.

Combined B.A. and M.A. in Anthropology or Applied Anthropology

This program is primarily designed for transfer students who enter American University in their junior year with substantial background in anthropology. It allows qualified students to complete the B.A. in Anthropology and the M.A. in Anthropology or Applied Anthropology after three years (six semesters) of uninterrupted study. Students with interest in applied anthropology or in a field related to anthropology (e.g. law, social services, government service, public health) find this degree combination especially appropriate for preprofessional training.

Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate majors ordinarily apply for admission to the combined B.A./M.A. program at the end of their junior year. Admission decisions follow the procedures used to evaluate graduate applicants to the M.A. pro-

grams. Interest in this program should be discussed with members of the faculty before formal application is begun.

Requirements

- All requirements for the B.A. in Anthropology
- All requirements for either the M.A. in Anthropology or the M.A. in Applied Anthropology

Students may use 6 credit hours of course work at the 500-level or above in anthropology to satisfy the requirements for both degrees.

M.A. in Anthropology

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. Admission is based on academic record, two academic letters of reference, and an example of the applicant's work, e.g., a term paper. Graduate Record Examination (GRE) scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- One written examination in general anthropological theory and method (03.006)
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two faculty members. Final approval by the chair is required.

Note: A student from another discipline may take a comprehensive examination in anthropology (03.022 Cultural Analysis) with a minimum of 9 credit hours in anthropology.

Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.797 Master's Thesis Seminar (6) (thesis option)

M.A. in Applied Anthropology

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. Admission is based on academic record, two academic letters of reference, and an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- One written examination stressing the relevance of general anthropology to applied work (03.008)
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two faculty members. Final approval by the chair is required.

Course Requirements

- 03.532 Culture Change (3)
- 03.542 Principles of Applied Anthropology (3)
- 03.543 Anthropology of Development (3) *or*
- 03.544 Topics in Applied Anthropology (3)
- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3) *or*
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.691 Internship in Anthropology (3) *or*
- Equivalent application of anthropological method and theory to practical problem-solving in the student's area of interest
- 03.797 Master's Thesis Seminar (6) (thesis option)

Ph.D. in Anthropology

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. Admission is based on academic record, two academic letters of reference, and an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of 72 credit hours of approved graduate work
- Students entering the program with an M.A. in Anthropology earned elsewhere must complete at least 30 credit hours of course work and no more than 12 credit hours of dissertation credit in residence.
- Two languages or one language and statistical or computer analysis as a tool of research.
- Four comprehensive examinations, at least two written and at least one oral. Examinations include: 03.006 Anthropological Method and Theory; one in a main field (03.016 Ethnological Methods, 03.017 Archaeological Methods, or 03.018 Linguistic Methods); one in an approved elective subfield of specialization (03.020); and one in an approved area of concentration (03.021).

Note: A student in another discipline may take a comprehensive examination in anthropology with a minimum of 12 credit hours in anthropology. Anthropology students may take one outside examination if they take 12 hours of course work in a second approved discipline.

- A dissertation and an oral defense
- Field work is a component of dissertation research except in very unusual cases.

Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.799 Doctoral Dissertation Seminar (6)

Art

Chair Don Kimes

Full-Time Faculty

University Professor Emeritus A.S. Keck, B.L. Summerford

Professor Emeritus/a I. Eno, L. Penay

Professor N. Broude, M.D. Garrard, D. Kimes, S. Lewis, M. Oxman

Associate Professor Emeritus L. Brabanski, C. Ravenal

Associate Professor M. Graham, R. M. Haynie, M. Hirano, D. Kahn, C.A. Story

Assistant Professor H. Langa, L. Silva

The Department of Art encompasses the creative activities of the fine arts (painting, sculpture, and printmaking), the artistic applications of design, and the theoretical and historical concerns of art history. These complementary programs function together, so that the student gains not only depth of knowledge in a chosen specialty but also the breadth of experience that yields understanding of artistic traditions and values.

A faculty of exhibiting artists and practicing designers and strong studio programs focused on giving students facility with materials and familiarity with visual concepts make the art department, in effect, an art school within a university. In addition to the full-time faculty, the studio program brings an outstanding series of nationally and internationally distinguished visiting artists-in-residence to the department each year. This program has included Katherine Porter, Fritz Scholder, Andrew Forge, Kenneth Noland, Catherine Murphy, Joan Snyder, Nathan Oliveira, George McNeil, Mercedes Matter, Jane Wilson, Charles Cajori, Rosemarie Beck, Wayne Thiebaud, Gregory Amenoff, Jake Bertlot, Sam Gilliam, Judy Pfaff, Rackstraw Downes, and others.

An equally strong art history faculty and curriculum give the art history major a solid grounding in art as a historical and humanistic discipline in an environment that provides continuing contact with art in the making. Because of the university's location in one of the major art capitals of the world and its proximity to Washington's great museums and art collections, all programs afford students the advantage of immediate experience with art masterpieces of the past and present.

An important objective of the department is to prepare students for careers in the arts. Given the sound theoretical and technical bases of our programs, our graduates find that a wealth of individual career opportunities awaits them. Depending on the specific discipline pursued, they have become professional painters and sculptors, teachers, critics, graphic designers, illustrators, and exhibition design specialists. In addition, careers in museum and gallery work, teaching, visual resources, and historic preservation are available to qualified art historians.

B.A. in Art History

Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of 12 credit hours of art history courses and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 54 credit hours with grades of C or better
- Twenty-four of the last 30 credit hours in the major program must be taken in residence, 18 hours of which must be in art history and 6 in related fields or studio.

Course Requirements

- 07.100 European Art: From Cave to Cathedral 2:1 (3)
- 07.101 European Art: Renaissance to the Present (3)
- 07.500 Approaches to Art History (3)
- Three credit hours in each of four periods:

Ancient

- 07.302 Roman Art (3)
- 07.396 Selected Topics (3) with permission of the adviser
- 07.520 Seminar in Art History (3) (appropriate topic)
- 07.596 Selected Topics (3) with permission of the adviser

Medieval

- 07.303 Medieval Art (3)
- 07.308 Gothic Art (3)
- 07.396 Selected Topics (3) with permission of the adviser
- 07.520 Seminar in Art History (3) (appropriate topic)
- 07.596 Selected Topics (3) with permission of the adviser

Renaissance

- 07.205 Art of the Renaissance 2:2 (3)
- 07.396 Selected Topics (3) with permission of the adviser
- 07.501 Baroque Painting (3)
- 07.513 Renaissance Painting: Giotto to Bellini (3)
- 07.514 Renaissance Painting: Leonardo to Caravaggio (3)
- 07.520 Seminar in Art History (3) (appropriate topic)
- 07.596 Selected Topics (3) with permission of the adviser

Modern

- 07.210 Modern Art: Nineteenth and Twentieth Centuries 1:2 (3)
- 07.331 Visual Arts in the United States to 1890 (3)
- 07.332 Visual Arts in the United States: 1890 to 1945 (3)
- 07.333 Visual Arts since 1945 (3)
- 07.396 Selected Topics with permission of the student's adviser (3)
- 07.508 Painting: Rococo through Impressionism (3)
- 07.510 Painting: Post-Impressionism to Expressionism (3)
- 07.511 Painting: Cubism to the Present (3)
- 07.520 Seminar in Art History (appropriate topic)
- 07.596 Selected Topics (3) with permission of the adviser
- Fifteen additional credit hours in art history:
At least two of the art history courses taken to fulfill requirements must be at the 500 level.
- Six hours in studio from the following:
05.100 Art: The Studio Experience 1:1 (3)
05.205 Drawing: Responding to Vision 1:2 (3)
05.210 Painting: Color, Form, Expression 1:2 (3)
05.215 Sculpture: Form and Expression in 3-D 1:2 (3)
05.320 Creative Painting (3)
05.340 Sculpture (3)
05.360 Drawing (3)
05.363 Introduction to Printmaking (3)
- Twelve credit hours at the 300 level or above from one of the following fields: American studies, anthropology, history, literature, music, or philosophy
Course selections must be related to the major and to each other and must be approved by the faculty.

Note: Students contemplating graduate study in art history are advised to attain a reading knowledge of French, Italian, or German to the intermediate level (or equivalent of 12 credit hours at the college level).

Special Opportunities

A major program track in American Art/American Studies is possible. It requires at least a 12 credit hour concentration in American art and a 12 credit hour related course requirement in American studies.

Internships in local agencies, museums, galleries, and libraries are permitted with departmental approval, but are limited to 3 credit hours unless taken as electives.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Graphic Design**Admission to the Program**

Formal admission to the major requires satisfactory completion (C or better) of 12 credit hours of design courses and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 54 credit hours with grades of C or better
- Twenty-four of the last 30 credit hours in the major program must be taken in residence, of which 18 hours must be in design and 6 in studio or art history.

Course Requirements

- 05.220 Design: Color Theory and Practice 1:2 (3)
- 05.225 Design: Form, Space, Vision 1:2 (3)
- 05.348 Design Techniques I (3)
- 05.349 Design: Computer Graphics I (3)
- 05.350 Typography: Theory and Practice (3)
- 05.351 Design Techniques II (3)
- 05.353 Typography: Color and Design (3)
- 05.356 Advanced Design I (3)
- 05.357 Advanced Design II (3)
- 07.100 European Art: From Cave to Cathedral 2:1 (3)
- 07.101 European Art: Renaissance to the Present (3)
- 17.430 Basic Photography (3)
- Six credit hours from the following:
05.230 Structural Drawing (3)
05.310 The History of Graphic Design (3)
05.354 Production for Graphic Designers (3)
05.355 Design: Computer Graphics II (3)
05.359 Illustration (3)
05.392 Cooperative Education Field Experience (3–9)
05.396 Selected Topics (3) with permission of the adviser
05.491 Internship (3) (with approval of department)
- Nine credit hours in studio from the following:
05.100 Art: The Studio Experience 1:1 (3)
05.205 Drawing: Responding to Vision 1:2 (3)
05.210 Painting: Color, Form, Expression 1:2 (3)
05.215 Sculpture: Form and Expression in 3-D 1:2 (3)
05.320 Creative Painting (3)
05.340 Sculpture (3)
05.344 Ceramics (3)

- 05.360 Drawing (3)
- 05.363 Introduction to Printmaking (3)
- 05.364 Printmaking: Woodcut and Surface Print (3)
- 05.520 Techniques of Etching (3)

- Three additional credit hours in art history (may be satisfied by 05.310 if not used as design elective)

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Studio Art

Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of 12 credit hours of studio courses and departmental approval.

Areas of Specialization

Painting, Sculpture, Printmaking

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 54 credit hours with grades of C or better
- Twenty-four of the last 30 credit hours in the major program must be taken in residence, of which 18 hours must be in studio and 6 may be in art history.

Course Requirements

- 05.205 Drawing: Responding to Vision 1:2 (3)
- 05.210 Painting: Color, Form, Expression 1:2 (3)
- 05.320 Creative Painting (3)
- 05.340 Sculpture (3)
- 05.360 Drawing (3) (taken for a total of 9 credits)
- 05.363 Introduction to Printmaking (3) *or*
- 05.364 Printmaking: Woodcut and Surface Print (3)
- 07.100 European Art: From Cave to Cathedral 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)

- Twelve credit hours including 9 credit hours from one and 3 credit hours from another of the following areas of specialization
Note: All courses listed below may be repeated for credit:

Painting

- 05.320 Creative Painting (3)

Sculpture

- 05.340 Sculpture (3)

Printmaking

- 05.363 Introduction to Printmaking (3)
- 05.364 Printmaking: Woodcut and Surface Print (3)
- 05.520 Techniques of Etching (3)

- Six additional credit hours from the following:

- 05.100 Art: The Studio Experience 1:1 (3)
- 05.215 Sculpture: Form and Expression in 3-D 1:2 (3)
- 05.320 Creative Painting (3)
- 05.340 Sculpture (3)
- 05.344 Ceramics (3)
- 05.360 Drawing (3)
- 05.363 Introduction to Printmaking (3)
- 05.364 Printmaking: Woodcut and Surface Print (3)
- 05.520 Techniques of Etching (3)

- Six additional hours of art history

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Bachelor of Fine Arts

Admission to the Program

Formal admission to the program is subject to the approval of a portfolio, evaluation of the academic record, and a personal interview. Admission depends entirely on faculty action resulting from this review. Consideration for the B.F.A. is permitted only after 18 credit hours or three semesters of studio work have been completed at American University but before beginning the senior year.

Areas of Specialization

Painting, Sculpture, Printmaking

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 72 credit hours with grades of C or better

Course Requirements

- 05.205 Drawing: Responding to Vision 1:2 (3)
- 05.210 Painting: Color, Form, Expression 1:2 (3)
- 05.320 Creative Painting (3)
- 05.340 Sculpture (3)
- 05.360 Drawing (3) (taken for a total of 9 credits)
- 05.363 Introduction to Printmaking (3) *or*
05.364 Printmaking: Woodcut and Surface Print (3)
- 05.560 Drawing (3) (taken after 9 credits of 05.360)
- 07.100 European Art: From Cave to Cathedral 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- Eighteen credit hours from one of the following areas of specialization.

Note: All courses listed below may be repeated for credit:

Painting

- 05.320 Creative Painting (3)

Sculpture

- 05.340 Sculpture (3)

Printmaking

- 05.363 Introduction to Printmaking (3)
- 05.364 Printmaking: Woodcut and Surface Print (3)
- 05.520 Techniques of Etching (3)
- Nine credit hours in one other area, or 3 credit hours in each of the other two areas of specialization.
- Six additional credit hours from the following:
05.100 Art: The Studio Experience 1:1 (3)
05.215 Sculpture: Form and Expression in 3-D 1:2 (3)
05.320 Creative Painting (3)
05.340 Sculpture (3)
05.344 Ceramics (3)
05.360 Drawing (3)
05.363 Introduction to Printmaking (3)
05.364 Printmaking: Woodcut and Surface Print (3)
05.520 Techniques of Etching (3)
- Six additional credit hours of art history

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program

regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Art History

Requirements

- 07.100 European Art: From Cave to Cathedral 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- Nine additional credit hours at the 300 level or above, arranged and approved in advance with an art history adviser, and 3 credit hours at the 200 or 300 level.

Minor in Graphic Design

Requirements

- 05.220 Design: Color Theory and Practice 1:2 (3)
- 05.225 Design: Form, Space, Vision 1:2 (3)
- 05.348 Design Techniques I (3)
- 05.350 Typography: Theory and Practice (3)
- Nine credit hours from the following:
05.310 The History of Graphic Design (3)
05.349 Design: Computer Graphics I (3)
05.351 Design Techniques II (3)
05.353 Typography: Color and Design (3)
05.354 Production for Graphic Designers (3)
05.356 Advanced Design I (3)
05.359 Illustration (3)

Minor in Studio Art

Requirements

Requirements for the minor in studio art are dependent upon the student's interest and choice of concentration. Areas of concentration may include painting, printmaking, sculpture, drawing, or ceramics. The studio art minor requires 21 credit hours approved in advance through consultation with a studio faculty adviser and selected from the following:

- 05.100 Art: The Studio Experience 1:1 (3)
- 05.205 Drawing: Responding to Vision 1:2 (3)
- 05.210 Painting: Color, Form, Expression 1:2 (3)
- 05.215 Sculpture: Form and Expression in 3-D 1:2 (3)
- 05.320 Creative Painting (2-3)
- 05.340 Sculpture (2-3)
- 05.344 Ceramics (3)
- 05.359 Illustration (3)
- 05.360 Drawing (3)
- 05.363 Introduction to Printmaking (3)
- 05.364 Printmaking: Woodcut and Surface Print (3)
- 05.520 Techniques of Etching (3)

M.A. in Art History

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should hold a Bachelor of Arts degree from an accredited college or university. Students whose records indicate a strong aptitude for graduate study, but whose undergraduate major was not in art history, will be required to complete at least 24 credit hours of art history before being considered for admission to the graduate program. Admission is based on academic record, Graduate Record Examination (GRE) scores, and two letters of recommendation (if the undergraduate degree was not earned in the department).

At the department's discretion, students who have completed at least 18 credit hours of art history may be considered for admission and, if admitted, may complete the 6 credit hour deficiency during the course of their M.A. program.

Part-time students are advised that an M.A., which takes at least three semesters of full-time study, cannot be completed at night or in summer only.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work (A special 36 credit hour program with a structured museum internship option is available to qualified students.)
- Tool of research: intermediate level French, German, or Italian, or reading knowledge of one of these languages demonstrated through examination
- Advancement to candidacy after completion of 18 credit hours with a grade point average of 3.00 or higher (on a 4.00 scale) and satisfactory completion of the tool requirement
- Two written examinations:
One examination in 07.003 History of Western Art (Greek to Modern) and one in the student's specialized field of art history: 07.079 Medieval Art, 07.010 Renaissance Art, 07.011 Baroque and Rococo Art, 07.012 Nineteenth and Twentieth Century Art, 07.020 Art in the United States, or 07.021 Architecture.
- Two substantial research papers in lieu of a thesis. One paper must originate in a graduate seminar. One paper must be in the student's field of specialization.

Course Requirements

- Nine credit hours in the field of specialization
- Six credit hours in master's research seminars, or independent study (07.792 and 07.793), of which 3 hours must be in the field of specialization (see examinations above)
- 07.500 Approaches to Art History (3), if an equivalent course was not taken at the undergraduate level
- Remaining courses distributed according to individual program and needs

Note: 6 additional credit hours of course work are required if museum training or more than one internship is selected.

Curriculum Models

Curriculum Model I: General History of Western Art. A discipline-oriented approach for students who intend to continue for a Ph.D. elsewhere or to teach at the high school or junior college level. The M.A. program would emphasize a range of art history courses with a conventional period specialization.

Curriculum Model II: Applied Research in Art History. A practical-applications approach with intensive training in research and writing for students who seek special training for museum work, architectural survey, historic preservation research, etc. The M.A. program could include related course work in history, culture, American studies, etc., as well as internships and field experience.

Curriculum Model III: Concepts of Art and Art History. A problem-oriented approach aimed at depth of understanding of art and methods of art history, for students interested in connoisseurship and critical analysis, generally with an emphasis in painting. The M.A. program would include fine arts courses such as 05.533 Materials and Techniques of Painting (3) (for which some studio experience is required) and 05.700 Criticism of Painting (3), as well as independent reading courses in criticism, theory, or historiography.

Special Opportunities

Individually structured programs in museum training and internships in local museums, galleries, agencies, or libraries, such as the National Museum of American Art, the American Institute of Architects, and the Library of Congress, are available for qualified students with departmental approval.

M.F.A. in Painting, Sculpture, or Printmaking

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should hold a Bachelor of Arts (with a major in Fine Arts) or a Bachelor of Fine Arts. Under special circumstances, applicants without a B.A. or B.F.A. degree or without a major in Fine Arts, but with outstanding artistic or professional qualifications, may be considered for admission.

Admission is based on academic record, two letters of recommendation and a portfolio of at least twenty slides, including examples of drawings. A resume of the applicant's background should be included in the portfolio. Slide portfolios should be sent directly to the Department of Art. The department cannot be liable for loss or damage or for any transportation or mailing expense.

Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
- Additional studio (or art history) courses may be required to attain maturity and proficiency and to complete satisfactorily the comprehensives and thesis. The number and kinds of additional courses will be stipulated by the admissions committee at the time of admission.

- One oral examination after completion of 05.792 Art Laboratory and after each section of 05.797 Master's Thesis Seminar
- A thesis exhibition of original works of art in the student's field of concentration (painting, sculpture, or printmaking) executed independently by the student in consultation with a thesis committee of two or three faculty members. Written and photographic documentation of approved thesis is also required.

Course Requirements

- 05.560 Drawing (9)
- 05.700 Criticism of Painting (3)
- 05.792 Art Laboratory: Painting (3)

Audio Technology

Director Scott Norcross

Faculty from the Physics Department and other schools and departments of the university teach courses in the program.

The B.S. in Audio Technology is a multidisciplinary program of the Department of Physics that includes course offerings in the School of Communication and the Departments of Performing Arts and Computer Science. This unique program concentrates on the technology of modern sound recording, reproduction, reinforcement and control, with a broad view of applications in the arts, the media, science and industry. The core training is in multi-track recording engineering, supported by a firm basis of physical and technical principles.

Graduates of the program are qualified to work as audio engineers in professional commercial or private recording studios, multimedia and post-production facilities, in the broadcast industry as engineers and producers, in technical theater, in sound reinforcement, and as acoustical and sound system engineers and consultants.

B.S. in Audio Technology

Admission to the Program

Formal admission to the program requires a grade point average of 2.00 (on a 4.00 scale) and the approval of the department undergraduate adviser. The Department of Physics advises freshmen and transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

- 05.797 Master's Thesis Seminar (9)
- Six additional credit hours from the following:
05.520 Techniques of Etching (3)
05.560 Drawing (3)
05.792 Art Laboratory: Painting (3)
05.793 Art Laboratory: Sculpture (3)
05.795 Art Laboratory: Printmaking (3)
- Six credit hours in art history, which must be in painting if thesis field is painting. Distribution for printmaking and sculpture must be approved by faculty.

Major Requirements

- A total of 63 credit hours with grades of C or better

Course Requirements

- 41.170 Precalculus Mathematics (3)
- 50.101 Fundamentals of Audio Technology (3)
- 50.102 Audio Technology Laboratory (1)
- 50.210 Sound Synthesis I (4)
- 50.312 Electronics I (3)
- 50.313 Electronics II (3)
- 50.220 Sound Synthesis II (4)
- 50.305 Acoustics (3)
- 50.322 Electronics Laboratory I (2)
- 50.323 Electronics Laboratory II (2)
- 50.384 Fundamentals of Video Engineering (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound Studio Techniques (3)
- 50.500 Digital Interfacing (4)
- 50.501 Microprocessors and Digital Audio (4)
- 51.105 College Physics I 5:1 (4)
- 51.205 College Physics II 5:2 (4)
- 64.280 Introduction to Computer Science I (4)
- One of the following:
17.205 Understanding Mass Media 4:2 (3)
17.333 Fundamentals of TV and VTR (3)
17.346 Audio-Visual Communication (3)
17.410 Interpersonal Communication (3)
- One of the following:
67.120 Music Fundamentals (3)
67.260 Principles of Production I (4)
67.362 Lighting Design (3)

Special Opportunities

Internships are available at active professional recording studios, radio and television stations, and theatres. Employers of audio engineers include business, government, educational institutions, and the entertainment industry.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Audio Technology

The minor in audio technology is designed for students who desire a working knowledge of audio techniques. Interested students should consult the academic advisers in the Department of Physics.

Biology

Chair Daniel W. Fong

Full-Time Faculty

Professor Emeritus/a E.J. Breyer, M.C. Sager

Professor W.C. Banta, D.C. Culver

Research Professor D. Boness, G. Loeb, R. Fleischer, W. Wergin

Associate Professor Emeritus C.R. Wrathall

Associate Professor B.J. Clarke, D.W. Fong, R.H. Fox, S.C. Grebe

Assistant Professor D. Hursh, D. Kirby, C. Schaeff

The Department of Biology provides courses in the life sciences, emphasizing advances in molecular genetics, embryology, development, and evolutionary biology. Faculty members conduct research in developmental biology, evolutionary biology, neurobiology, microbiology, ecology, oceanography, immunology, and molecular biology. Students are encouraged to participate in research projects at all levels.

Students have the opportunity to visit, observe, and intern in some of the nation's most prestigious biological research centers, including the National Institutes of Health (NIH) and the National Institute of Mental Health (NIMH).

The department offers programs leading to the Bachelor of Science as well as graduate master's degree programs. In addition to training for graduate study in biology, undergraduate students are prepared for medical, dental, and veterinary schools. The Department of Biology offers courses that combine traditional education with training necessary in today's

Course Requirements

- 50.101 Fundamentals of Audio Technology (3)
- 50.102 Audio Technology Laboratory (1)
- 50.384 Fundamentals of Video Engineering (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound Studio Techniques (3)
- 51.105 College Physics I 5:1 (4)
- 51.205 College Physics II 5:2 (4)
- 17.333 Fundamentals of TV and VTR (3)

or

one of the following:

17.346 Audio-Visual Communication (3)

17.430 Basic Photography (3)

17.435 Introduction to Studio Television (3)

professional marketplace. Curricula are designed to allow maximum individual choice of course selection after departmental requirements have been met. Minors in Biology and Environmental Science are also offered.

The Department of Biology offers programs leading to the M.A. and M.S. degrees with concentrations in developmental biology and evolutionary biology. Both the M.S. and M.A. degrees in biology emphasize the development of research techniques. Research and teaching laboratories are well equipped and constantly upgraded. Students have the opportunity to gain experience in scientific methods and experimental design in the laboratory and in the field.

Graduate research may be carried out in the department or in the laboratories of federal agencies such as Walter Reed Institute of Pathology, the National Institutes of Health, and the Naval Medical Research Institute.

Graduates may choose to pursue further graduate training or attend professional school. Laboratory technicians or other persons in biomedical careers may earn their degrees as a way of upgrading their classifications and job skills. In addition, graduates will be able to take advantage of job opportunities in places such as research laboratories, museums, and zoos.

In addition to on-campus courses that provide laboratory and field experiences, students may also be placed in government policy-making or regulatory agencies and private-sector laboratories as interns or on independent study projects.

B.S. in Biology

Admission to the Program

Admission is through formal declaration of major. The department counsels freshmen and transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 72 credit hours with grades of C or better

Course Requirements

Departmental Requirements

- 09.110 General Biology I 5:1 (4)
- 09.210 General Biology II 5:2 (4)
- 09.300 Cell Biology with Laboratory (4)
- 09.356 Genetics with Laboratory (5)
- 09.499 Senior Seminar in Biology (3)
- Twenty credits in biology or other approved courses at the 300 level or above. No more than 3 credit hours of a combination of 09.390 Independent Reading, 09.392 Cooperative Education, 09.490 Independent Study Project in Biology, or 09.491 Internship may be counted toward this requirement.

Related Requirements

- 15.110 General Chemistry I 5:1 (4)
- 15.210 General Chemistry II 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- 51.110 University Physics I 5:1 (4) (recommended) *or* 51.105 College Physics I 5:1 (4)
- 51.210 University Physics II 5:2 (4) (recommended) *or* 51.205 College Physics II 5:2 (4)
- 41.221 Calculus I (4)
- 41.222 Calculus II (4)
or
42.202 Basic Statistics (4)

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The

department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Biology

Requirements

- A minimum of 28 credit hours with at least 12 credits unique to the minor

Course Requirements

- 09.110 General Biology I 5:1 (4)
- 09.210 General Biology II 5:2 (4)
- 09.300 Cell Biology with Laboratory (4)
- 09.356 Genetics with Laboratory (5)
- 15.110 General Chemistry I 5:1 (4)
- 15.210 General Chemistry II 5:2 (4)
- One additional upper-level Biology course approved by the department chair

B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two tracks, in Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through course work spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Programs chapter.

Minor in Environmental Science

For a description of this program, see Environmental Studies Programs in the Interdisciplinary Programs chapter.

Combined B.S. and M.S. in Biology

This program is primarily designed for students who wish to pursue a doctoral degree in biology or who desire employment in biology research or administration. Students may focus their course work in either developmental biology or evolutionary biology, the two areas of concentration for the M.S. degree. Students may conduct their research in either of these two broad categories, which include physiology, neurobiology, molecular biology, genetics, and molecular evolution research.

Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate biology majors should apply for admission to the B.S./M.S. program by the end of the junior year.

Admission is open to undergraduates whose overall grade point average and grade point average in biology is 3.00 or higher. Applications must be accompanied by two letters of recommendation and a statement of purpose. Graduate Record Examination (GRE) scores are not required for admission to the B.S./M.S. program.

Students should discuss their interest in the program and their course schedules with members of the faculty before submitting a formal application. Interested students are encouraged to enroll in 09.490 Independent Study Project in Biology to conduct independent study research before applying.

Requirements

- All requirements for the B.S. in Biology
 - All requirements for the M.S. in Biology
- Students may use up to 6 credit hours from the following to satisfy the requirements for both degrees:
- 09.xxx courses at the .500 level or above
 - 15.560 Biochemistry I (3)
 - 15.561 Biochemistry II (3)
 - 42.514 Statistical Methods (3)

M.S. in Biology

This is research degree may serve as an intermediate degree for those intending to pursue further graduate study in evolutionary biology and developmental biology, or as a terminal degree for a variety of careers in the life sciences.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants are strongly urged to take the General Test and the Advanced Test in Biology of the Graduate Record Examination. Admission is based on evaluation of undergraduate and previous graduate work by the departmental graduate studies committee and two letters of recommendation. Preference is given to applicants with a clear interest in working in the research laboratory of one of the full-time faculty members in the department.

Tracks

Developmental Biology and Evolutionary Biology

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- Comprehensive examination in either developmental biology or evolutionary biology
- Advancement to candidacy, which requires the acceptance of a research proposal by the student's adviser, the graduate studies committee, and the chair of the department at least one semester prior to the oral defense of the thesis
- Completion, oral defense, and the acceptance of thesis by the thesis committee, chair of the department, and the university

Course Requirements

Core

- 09.583 Molecular Biology (3)
- 09.697 Research Methods in Biology (3)
- 09.797 Master's Thesis Research (6)
- 42.514 Statistical Methods (3) (satisfies tool of research requirement)

Developmental Biology

- 09.550 Developmental Biology with Laboratory (4)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- An additional 5 hours of approved graduate course work

Evolutionary Biology

- 09.565 Field Ecology (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.567 Evolutionary Ecology (3)
- An additional 6 hours of approved graduate course work

M.A. in Biology

This is a nonthesis degree that may serve as a terminal degree for students in various life-science professions, as additional training for students seeking admission to professional schools, or as an intermediate degree for those intending to pursue further graduate study.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must take the General Test and the Advanced Test in Biology of the Graduate Record Examination. Admission is based on evaluation of undergraduate and previous graduate work by the departmental graduate studies committee and two letters of recommendation.

Tracks

Developmental Biology and Evolutionary Biology

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- Comprehensive examination in general biology, developmental biology, or evolutionary biology
- Directed literature research (09.790) resulting in a significant paper reviewing some aspect of biological science; the subject of this review paper is selected by the student subject to approval by the graduate studies committee and the chair of the department
- An oral report presented in the form of a public seminar on the topic of the review paper

Course Requirements

Core

- 09.583 Molecular Biology (3)
- 09.697 Research Methods in Biology (3)
- 09.790 Biology Literature Research (3)
- 42.514 Statistical Methods (3) (satisfies tool of research requirement)

Developmental Biology

- 09.550 Developmental Biology with Laboratory (4)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- An additional 8 hours of approved graduate course work

Evolutionary Biology

- 09.565 Field Ecology (3)

- 09.566 Evolutionary Mechanisms (3)
- 09.567 Evolutionary Ecology (3)
- An additional 9 hours of approved graduate course work

Special Opportunities

Teaching fellowships or assistantships; the Helmling and Burhoe Awards for biology graduate students.

Chemistry

Chair Nina M. Roscher

Full-Time Faculty

Professor Emeritus H.S. El Khadem (Isbell Chair Emeritus),
R.T. Foley, P.F. Waters

Horace and May Isbell Chair in Natural Products
Chemistry D. Horton

Professor A.M. Cheh, J.E. Girard, N.M. Roscher

Research Professor J. Kutina, L.T. Hughes

Associate Professor F.W. Carson,

Research Associate Professor A. Le

Assistant Professor M. Adamczeski, S. Das, C.D. Pibel

Research Assistant Professor S.J. Mazur

Chemistry is the science that deals with the composition of materials, their structures and properties, the transformations they undergo, and the energy changes that accompany these transformations. Areas of study include general, organic, physical, analytical, and inorganic chemistry, as well as biochemistry and earth science. Students are encouraged to participate in research projects at all levels.

Accredited by the American Chemical Society, the department offers programs leading to the B.S. as well as graduate programs leading to the M.S. and Ph.D. degrees in chemistry. Besides training for a career or graduate study in chemistry, undergraduate students are prepared for medical or dental school, engineering programs, and other careers where technical expertise is needed. The department provides a personal, congenial environment where students can develop and pursue a flexible program of study designed to fulfill individual interests and needs.

Faculty members are involved in conducting research in analytical chemistry, biochemistry, carbohydrate chemistry, inorganic chemistry, biotechnology, organic synthesis, and physical biochemistry. Laboratory research projects are available in our own well-equipped modern building and also at many world-renowned research laboratories in the Washington, D.C. area.

Research opportunities in the Washington area through internships, cooperative education work-study programs, and special arrangements are available at the following laboratories: Armed Forces Radiobiology Research Institute, Bureau of Mines, Center for Advanced Research in Biotechnology, Food and Drug Administration, National Institute of Standards and Technology, Na-

tional Institutes of Health, Naval Medical Research Institute, Naval Research Laboratory, Naval Surface Weapons Laboratory, U.S. Army Mobility Equipment Research and Development Command at Fort Belvoir, and the Walter Reed Army Institute of Research. Students who participate in these programs obtain experience with specialized equipment and interact with research scientists outside the university.

B.S. in Chemistry

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale). The department counsels freshmen and transfer students, as well as declared chemistry majors.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 65 credit hours with grades of C or better

Course Requirements

- 15.110 General Chemistry I 5:1 (4)
- 15.210 General Chemistry II 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- 15.350 Quantitative Analysis (3)
- 15.351 Quantitative Analysis Laboratory (2)
- 15.410 Physical Chemistry I (3)
- 15.411 Physical Chemistry I Laboratory (1)
- 15.420 Physical Chemistry II (3)
- 15.421 Physical Chemistry II Laboratory (2)

- 15.460 Instrumental Analysis (3)
- 15.461 Instrumental Analysis Laboratory (2)
- 15.507 Chemical Literature (1)
- 15.550 Advanced Inorganic Chemistry (3)
- 15.552 Inorganic Chemistry Laboratory (1)
- 41.221 Calculus I (4)
- 41.222 Calculus II (4)
- 41.223 Calculus III (4)
- 51.110 University Physics I 5:1 (4)
- 51.210 University Physics II 5:2 (4)
- At least 3 credit hours from the following:
15.490 Independent Study Project (1–6)
15.498 Honors: Senior Year (1–3)
15.499 Honors: Senior Year (1–3)

Recommended Courses

- 15.200 Human Biochemistry and Health 5:2 (3)
- 15.220 Environmental Resources and Energy 5:2 (3)
- 15.230 Earth Science 5:2 (3)
- 15.401 Geology (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.570 Computers in Chemistry (3)

Courses in biology and physics

For graduate school preparation:

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.546 Thermodynamics and Statistical Mechanics (3)
- 15.551 Topics in Inorganic Chemistry (3)

Medical school requirements include:

- 09.110 General Biology I 5:1 (4)
- 09.210 General Biology II 5:2 (4)

Also recommended for medical school preparation:

- 09.300 Cell Biology with Laboratory (4)
- 09.440 Microbiology with Laboratory (4)
- 09.501 Mechanisms of Pathogenesis (3)
- 09.505 Introduction to Neurobiology (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Other suggested electives include:

- 42.202 Basic Statistics (4)
- 42.515 Regression (3)
- 50.312 Electronics I (3)
- 50.313 Electronics II (3)
- 51.330 Classical Mechanics (3)
- 51.350 Electricity and Magnetism (3)
- 51.370 Modern Physics (3)
- 64.280 Introduction to Computer Science I (4)
- 64.281 Introduction to Computer Science II (3)

Note: Competence in German (highly recommended for literature searching), French, or Russian at the intermediate level is expected.

Special Opportunities

- Anthony M. Schwartz Undergraduate Research Fellowship
- A cooperative work-study program involving several participating research organizations is available through the Department of Chemistry. The undergraduate student is expected to work full time for six months and study at the university for five months. Further details are available from the department office.
- An undergraduate research program is available. Qualified junior and senior chemistry majors may conduct research under 15.390 or 15.490 Independent Study Project in Chemistry.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill Honors requirements for University Honors in Chemistry, students may take Honors supplements to satisfy the advanced-level requirements, but are encouraged to meet with faculty members to discuss independent research projects that combine the advanced-level and capstone experiences. Students register for 15.398, 15.399, 15.498, or 15.499 as appropriate. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two tracks, in Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through course work spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Programs chapter in this catalog.

Minor in Chemistry

Course Requirements

- 15.110 General Chemistry I 5:1 (4)
- 15.210 General Chemistry II 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- Eight credit hours from the following with the approval of the department chair:
15.350 Quantitative Analysis (3)
15.351 Quantitative Analysis Laboratory (2)
15.410 Physical Chemistry I (3)
15.411 Physical Chemistry I Laboratory (1)
15.420 Physical Chemistry II (3)
15.421 Physical Chemistry II Laboratory (2)

- 15.460 Instrumental Analysis (3)
- 15.461 Instrumental Analysis Laboratory (2)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Combined B.S. and M.S. in Chemistry

This program is designed for students who are interested in a career in chemistry or in other careers where technical expertise is needed. It also provides a strong foundation in chemistry for students entering medical, dental, or law school. Students are encouraged to participate in research at all levels, preferably beginning after their sophomore year.

Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate chemistry majors should apply for admission to the B.S./M.S. program by the end of the junior year.

Admission is open to undergraduates whose overall grade point average in chemistry is 3.00 or higher. Applications must be accompanied by two letters of recommendation and a statement of purpose.

Students should discuss their interest in the program and their course schedules with members of the faculty before submitting a formal application. Interested students are encouraged to enroll in 15.490 Independent Study Project in Chemistry to conduct independent study research before applying.

Requirements

- All requirements for the B.S. in Chemistry
 - All requirements for the M.S. in Chemistry
- Students may use up to 6 credit hours from the following to satisfy the requirements for both degrees:
- 15.xxx courses at the .500 level or above
 - 42.514 Statistical Methods (3)
 - 51.570 Introduction to Quantum Mechanics (3)

M.S. in Chemistry

Admission to the Program

Applicants must have earned a degree equivalent to fulfilling the requirements for a B.S. in Chemistry with a 3.00 cumulative grade point average (on a 4.00 scale) in chemistry from a college accredited by the American Chemical Society. All applications must be approved by the faculty of the Department of Chemistry.

Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, and Organic Chemistry.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation com-

mittee and the chair of the department one semester after the student enters the program

- Advancement to candidacy on completion of 12 credit hours of graduate course work
- An examination in German, French, Russian, computer programming, or statistics as a tool of research.
- One comprehensive examination in the major field
- A thesis of publishable quality based on original chemical laboratory research

Course Requirements

- 15.507 Chemical Literature (1) (unless completed with a grade of B or better as an undergraduate)
- 15.550 Advanced Inorganic Chemistry (3) (unless completed with a grade of B or better as an undergraduate)
- 15.700 Seminar in Chemistry (1)
- 15.797 Master's Thesis Research (6)

Analytical and Inorganic Chemistry

- 15.522 Interpretation of Spectra (3)
- 15.551 Topics in Inorganic Chemistry (3)
- 15.610 Advanced Analytical Chemistry (3)

Biochemistry

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.661 Enzyme Kinetics and Mechanisms (3)

Organic Chemistry

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Interdisciplinary M.S. in Toxicology

The M.S. in Toxicology is an interdisciplinary degree offered jointly by the Department of Chemistry and the Department of Biology.

Admission to the Program

Applicants must have earned a degree in chemistry, biology, or a related field from an accredited college or university. Admission is based on evaluation by the Department of Chemistry faculty of undergraduate and previous graduate work and two letters of recommendation. A cumulative undergraduate grade point average of 3.00 (on a 4.00 scale) is required, unless the applicant meets the alternate criteria of having a grade point average of 3.50 in the last 12 credit hours of graduate work.

Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
- Tool of research: statistics

- One comprehensive examination in toxicology
- Six credit hours of research seminar with a grade of B or better

Course Requirements

- 09.660 Mammalian Physiology and Pathology (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.670 Principles of Pharmacology (3)
- 15.671 Principles of Toxicology (3)
- 15.682 Toxicological Testing (3)
- 15.751 Research Seminar in Toxicology (6)
- Twelve credit hours chosen from the following:
09.555 Techniques of Molecular Biology (3)
09.560 Techniques in Cell Biology (3)
09.583 Molecular Biology (3)
09.679 Aquatic Toxicology (3–4)
15.501 Principles of Analytical Chemistry (3)
15.680 Chemical Mutagens and Carcinogens (3)

Ph.D. in Chemistry

Admission to the Program

Applicants must have earned either (1) a degree equivalent to fulfilling the requirements for a B.S. in chemistry with a 3.00 cumulative grade point average (on a 4.00 scale) in chemistry from a college accredited by the American Chemical Society or (2) an M.S. or M.A. in chemistry. All applications must be approved by the faculty of the Department of Chemistry.

Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, and Organic Chemistry

Degree and Major Requirements

- A total of 72 credit hours of approved graduate work:
The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation committee and the chair of the department one semester after the student enters the program. The course program consists of a set of core courses supplemented by electives determined in consultation with the student's adviser or the graduate evaluation committee.
- Advancement to candidacy on completion of 18 graduate credit hours in chemistry for students admitted with a B.S. or B.A. degree. Students admitted from another university with an M.S. degree are required to file for advancement to candidacy on completing 9 graduate credit hours in chemistry.
- Tool of research: examinations in two of the following: Russian, German, French, computer programming, or statistics.
- Four comprehensive examinations, two in the major field, one in the minor field, and one oral examination in defense of the dissertation proposal.
- A dissertation of publishable quality based on original chemical laboratory research and oral defense before the student's committee.

Course Requirements

- 15.507 Chemical Literature (1) (unless completed with a grade of B or better as an undergraduate)
- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.550 Advanced Inorganic Chemistry (3) (unless completed with a grade of B or better as an undergraduate)
- 15.610 Advanced Analytical Chemistry (3)
- 15.700 Seminar in Chemistry (2)
- 15.799 Doctoral Dissertation Research (12–24)
- An additional two courses from the following:
15.546 Thermodynamics and Statistical Mechanics (3)
15.565 Physical Biochemistry (3)
15.642 Chemical Kinetics (3)
15.570 Introduction to Quantum Mechanics (3)

Electives determined by the student's choice of track:

Analytical and Inorganic Chemistry

- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.551 Topics in Inorganic Chemistry (3)
- or
- 15.618 Topics in Analytical Chemistry (3)

Biochemistry

- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.565 Physical Biochemistry (3)
- 15.600 Special Topics in Chemical Literature (1–3)
- 15.661 Enzyme Kinetics and Mechanisms (3)

Organic Chemistry

- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Graduate Certificate in Toxicology

Admission to the Program

Open to students with bachelor's degree in chemistry or biology.

Course Requirements

- 15.560 Biochemistry I (3) (Prerequisite: 15.320 Organic Chemistry II)
 - 15.561 Biochemistry II (3)
 - 15.671 Principles of Toxicology (3)
 - 15.670 Principles of Pharmacology (3)
 - 15.682 Toxicological Testing (3)
 - 09.660 Mammalian Physiology and Pathology (3)
- Other approved electives may be substituted

Computer Science and Information Systems

Chair Michael A. Gray

Full-Time Faculty

Professor Emeritus R.A. Bassler, W.J. Kennevan, I.D. Welt

Professor T.J. Bergin, F.W. Connolly, L.R. Medsker, A. Wu

Associate Professor Emeritus W.H. Gammon

Associate Professor S. Becker, M.A. Gray,

R. Khorramshahgol, A.J. La Salle, G. McGuire, M. Owrang

Assistant Professor J. Barlow, R. Gibson, J. Ligon

Instructor M. Haddad

The Department of Computer Science and Information Systems combines the resources and knowledge of two disciplines that concentrate on different aspects of the computer and information revolution. This combination enables students to gain a broader view of these fields than would otherwise be possible. American University's Washington, D.C. location affords students access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment for students with a strong technological background.

Computer science is the study of the theory and technology of computation itself. It is the science of information and of the structures that communicate, store, and process information. Whether one studies the machine (hardware) or the instructions executed by the machine (software), the fundamental concepts are similar.

Information systems is a professionally-oriented area covering all aspects of the analysis, design, development, and maintenance of computerized information systems. As all types of organizations become dependent on automated information resources, demand grows for information systems professionals. The information systems programs provide opportunities for course work to meet each student's special interests by allowing major electives to be chosen from other units in the university.

The computer science and information systems programs at American University ensure a balanced presentation of the practical and theoretical aspects of computer science and information technology. The program provides students with a background that may form the basis for professional employment or for further graduate study.

B.S. in Computer Information Systems

This program is designed to give students a thorough foundation in both the academic and practical aspects of information systems.

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and departmental approval.

University Requirements

- A total of 120 credit hours
- Six hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 71 credit hours with grades of C or better

Course Requirements

Core Courses

- 64.210 Introduction to Computer Information Systems (3)
- 64.234 Programming Concepts I (3)
- 64.235 Programming Concepts II (3)
- 64.315 Human Factors in Computer Information Systems (3)
- 64.325 Computer Hardware and System Software (3)
- 64.440 Database Management in Computer Information Systems (3)
- 64.455 Introduction to Systems Analysis (3)
- 64.460 Applied Systems Design (3)
- 64.465 Designing and Writing Computer Documentation (3)
- 64.480 Senior Seminar in Computer Information Systems (3)
- 64.485 Senior Workshop in Computer Information Systems (3)

Analytical Skills Courses

- 14.240 Principles of Financial Accounting (3)
- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 41.211 Applied Calculus I (4) *or*
- 41.221 Calculus I (4)
- 42.202 Basic Statistics (4)
- 64.432 Introduction to Simulation and Modeling (3)

Note: 19.100 and 19.200 fulfill the General Education Curricular Area 4 requirement. Either 41.211 or 41.221 satisfies the University Mathematics requirement.

Applications Area

- Two courses (minimum 6 credit hours) in an area of application of interest to the student as approved by an academic adviser. The courses must reflect a substantive area in which the student can apply his or her knowledge of information systems. Examples of applications areas include but are not limited to: international development, scientific information systems, computer science, social science research, communication,

public administration, personnel management, business administration, and arts management.

Elective Courses

- Twelve credit hours from the following:
 - 64.282 Assembly-Language Programming (4)
 - 64.340 Data Structures and Algorithms (3)
 - 64.345 Software Engineering (3)
 - 64.363 Microcomputer Applications in Computer Information Systems (3)
 - 64.365 Introduction to Operating Systems (3)
 - 64.390 Independent Reading in Computer Information Systems (1–6) with departmental approval
 - 64.392 Cooperative Education Field Experience (3)
 - 64.396 Selected Topics (3) with departmental approval
 - 64.490 Independent Study in Computer Information Systems (1–6)
 - 64.491 Internship (1–6)
 - 64.510 Legal Issues in Computing (3)
 - 64.533 Concepts in Computer Communication (3)
 - 64.535 Hypermedia Computing (3)
 - 64.550 History of Computing (3)
 - 64.568 Artificial Intelligence (3)
 - 64.584 Computer Graphics (3)
 - 64.596 Selected Topics (3) with departmental approval

Note: No more than 6 credit hours of cooperative education, internship, independent study, or independent reading may be used to fulfill this requirement.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Computer Information Systems

Requirements

- 64.210 Introduction to Computer Information Systems (3)
- 64.315 Human Factors in Computer Information Systems (3)
- 64.363 Microcomputer Applications in Computer Information Systems (3)
- Three elective courses, with at least one at the 300 level or above, to be selected in consultation with a faculty adviser from the following:
 - 10.454 Managing Information for Business Decision Making (3)
 - 64.234 Programming Concepts I (3)
 - 64.235 Programming Concepts II (3)
 - 64.280 Introduction to Computer Science I (4)
 - 64.281 Introduction to Computer Science II (3)

- 64.325 Computer Hardware and Systems Software (3)
- 64.440 Database Management in Computer Information Systems (3)
- 64.455 Introduction to Systems Analysis (3)
- 64.460 Applied Systems Design (3)

B.S. in Computer Science

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 73 credit hours with grades of C or better

Course Requirements

- 41.221 Calculus I (4)
- 41.222 Calculus II (4)
- 41.310 Linear Algebra (3)
- 41.508 Automata, Languages and Computability (3)
- 42.202 Basic Statistics (4)
- 64.280 Introduction to Computer Science I (4)
- 64.281 Introduction to Computer Science II (3)
- 64.282 Assembly-Language Programming (4)
- 64.330 Organization of Computer Systems (3)
- 64.340 Data Structures and Algorithms (3)
- 64.341 Organization of Programming Languages (3)
- 64.350 Introduction to Discrete Structures (3)
- 64.365 Introduction to Operating Systems (3)
- At least five additional courses approved by the student's adviser from the following:
 - 41.560 Numerical Analysis: Basic Problems (3)
 - 64.345 Software Engineering (3)
 - 64.390 Independent Reading in Computer Science (1–6) with departmental approval
 - 64.392 Cooperative Education Field Experience (3)
 - 64.396 Selected Topics (3) with departmental approval
 - 64.432 Introduction to Simulation and Modeling (3)
 - 64.440 Database Management in Computer Information Systems (3)
 - 64.491 Internship (1–6)
 - 64.510 Legal Issues in Computing (3)
 - 64.535 Hypermedia Computing (3)

- 64.543 Object-Oriented Analysis and Design (3)
- 64.546 Introduction to Computer Networks (3)
- 64.550 History of Computing (3)
- 64.566 Introduction to Compilers (3)
- 64.568 Artificial Intelligence (3)
- 64.580 Introduction to Neural Networks (3)
- 64.584 Computer Graphics (3)
- 64.585 Artificial Intelligence Programming (3)
- 64.596 Selected Topics (3) with departmental approval

Note: No more than 6 credit hours of cooperative education, internship, independent study, or independent reading may be used to fulfill this requirement.

- A two-semester sequence of laboratory science; recommended sequences:
 - 51.105 College Physics I 5:1 (4) *and*
 - 51.205 College Physics II 5:2 (4)
 - or*
 - 51.110 University Physics I 5:1 (4) *and*
 - 51.210 University Physics II 5:2 (4)
 - or*
 - 15.110 General Chemistry I 5:1 (4) *and*
 - 15.210 General Chemistry II 5:2 (4)
 - or*
 - 09.110 General Biology I 5:1 (4) *and*
 - 09.210 General Biology II 5:2 (4)
- Two additional science courses, and/or courses with strong emphasis on quantitative methods

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Computer Science

Requirements

- 64.280 Introduction to Computer Science I (4)
- 64.281 Introduction to Computer Science II (3)
- 64.340 Data Structures and Algorithms (3)
- Three additional courses from the following:
 - 64.282 Assembly-Language Programming (4)
 - 64.330 Organization of Computer Systems (3)
 - 64.341 Organization of Programming Languages (3)
 - 64.345 Software Engineering (3)
 - 64.365 Introduction to Operating Systems (3)
 - 64.396 Selected Topics (3) with departmental approval
 - 64.432 Introduction to Simulation and Modeling (3)
 - 64.440 Database Management in Computer Information Systems (3)
 - 64.510 Legal Issues in Computing (3)

- 64.535 Hypermedia Computing (3)
- 64.543 Object-Oriented Analysis and Design (3)
- 64.546 Introduction to Computer Networks (3)
- 64.550 History of Computing (3)
- 64.566 Introduction to Compilers (3)
- 64.568 Artificial Intelligence (3)
- 64.580 Introduction to Neural Networks (3)
- 64.584 Computer Graphics (3)
- 64.585 Artificial Intelligence Programming (3)
- 64.596 Selected Topics (3) with departmental approval

Combined B.S. and M.S. in Computer Science

Admission to the Program

Admission is open to undergraduate Computer Science majors with a minimum grade point average of 3.20 (on a 4.00 scale). Applicants must have completed the following by the end of the junior year:

- 64.280 Introduction to Computer Science I
- 64.281 Introduction to Computer Science II
- 64.282 Assembly-Language Programming
- 64.340 Data Structures and Algorithms
- 64.341 Organization of Programming Languages

Requirements

- All requirements for the B.S. in Computer Science
 - All requirements for the M.S. in Computer Science
- Students may apply 6 credit hours of approved course work at the .500 level to satisfy the requirements of both degrees.

Combined B.S. and M.S. in Information Systems

Admission to the Program

Admission is open to undergraduates with an overall grade point average of at least 3.00 (on a 4.00 scale) and a grade point average of 3.30 in the 30 credit hours taken immediately prior to admission.

Requirements

- All requirements for the B.S. in Computer Information Systems
 - All requirements for the M.S. in Information Systems
- Two courses, 64.511 Concepts in Systems and Information and 64.515 Human Factors in Information Systems, may be applied to both degrees. Students must complete the necessary prerequisites before taking 64.511 and 64.515 and both must be completed with a grade of B or better.

Combined B.S. in Mathematics and M.S. in Computer Science

Admission to the Program

Admission is open to undergraduate mathematics majors with a minimum grade point average of 3.20 (on a 4.00 scale). Applicants must have completed the following by the end of the junior year:

- 64.280 Introduction to Computer Science I
- 64.281 Introduction to Computer Science II
- 64.282 Assembly-Language Programming
- 64.340 Data Structures and Algorithms
- 64.341 Organization of Programming Languages

Requirements

- All requirements for the B.S. in Mathematics, including:
 - 64.281 Introduction to Computer Science II
 - 64.340 Data Structures and Algorithms
 - 64.341 Organization of Programming Languages

- All requirements for the M.S. in Computer Science

Students may apply 6 credit hours of approved course work at the .500 level to satisfy the requirements of both degrees.

M.S. in Computer Science

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have an adequate undergraduate preparation or experience in computer science. Students entering the program without the appropriate background will be expected to take certain undergraduate courses as a prerequisite.

One way of satisfying the prerequisites for the Computer Science master's program is through the Bridge Program, which allows students with a bachelor's degree in any discipline to qualify for graduate enrollment by taking a collection of computing and computing-related courses.

The Bridge Program in Computer Science requires the completion of a maximum of seven courses; however, courses may be waived if a student has substantial knowledge of the material covered in the courses. Two Bridge courses may be counted toward the master's degree requirements. Students who complete the Bridge Program will receive a certificate of completion. For more information, students should contact the Special Programs Advising Center at (202) 885-2500.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- Tool of research: mathematics, statistics, French, German, Japanese, or Russian
- Comprehensive examination: 64.060
- Six credit hours of thesis or nonthesis option

Courses taken to satisfy tool of research and thesis or nonthesis option must be passed with grades of B or better.

Course Requirements

- 64.520 Algorithms and Data Structures (3) (or equivalent)
- 64.521 Design and Organization of Programming Languages (3) (or equivalent)
- 64.540 Computer System Organization and Programming (3) (or equivalent)
- Thesis option: 64.797 Master's Thesis Seminar in Computer Science (6) and an oral defense of the thesis
Nonthesis option: 6 credit hours with grades of B or better from the following:
 - 64.620 Design and Analysis of Algorithms (3)
 - 64.630 Expert Systems (3)
 - 64.632 Simulation and Modeling (3)
 - 64.636 Advanced Database Management (3)
 - 64.637 Database Administration (3)
 - 64.645 Software Engineering (3)
 - 64.646 Computer Network Design and Analysis (3)
 - 64.680 Advanced Artificial Intelligence (3)
 - 64.690 Independent Study in Computer Science (1-6) with departmental approval
- Five additional courses from the following:
 - 64.510 Legal Issues in Computing (3)
 - 64.535 Hypermedia Computing (3)
 - 64.543 Object-Oriented Analysis and Design (3)
 - 64.546 Introduction to Computer Networks (3)
 - 64.550 History of Computing (3)
 - 64.565 Operating Systems (3)
 - 64.566 Introduction to Compilers (3)
 - 64.568 Artificial Intelligence (3)
 - 64.580 Introduction to Neural Networks (3)
 - 64.584 Computer Graphics (3)
 - 64.585 Artificial Intelligence Programming (3)
 - 64.590 Independent Reading in Computer Science (1-6) with departmental approval
 - 64.596 Selected Topics (3) with departmental approval
 - 64.620 Design and Analysis of Algorithms (3)
 - 64.630 Expert Systems (3)
 - 64.632 Simulation and Modeling (3)
 - 64.635 Computer Systems Workshop: Database Management (3)
 - 64.636 Advanced Database Management (3)
 - 64.637 Database Administration (3)
 - 64.642 Client Server Computing (3)
 - 64.645 Software Engineering (3)
 - 64.646 Computer Network Design and Analysis (3)
 - 64.680 Advanced Artificial Intelligence (3)
 - 64.692 Cooperative Education Field Experience (3-6)

Note: No more than 6 credit hours of cooperative education, internship, independent study, or independent reading may be used to fulfill this requirement.

Weekend Graduate Program in Computer Science

Students in the M.S. in Computer Science weekend program participate together as a learning community in ten sequenced courses. Most courses run for six weekend sessions (Friday and Saturday). Students complete the degree requirements and comprehensive exam in 24 months. For more information call the Special Programs Advising Center at (202) 885-2500.

The M.S. in Computer Science with a concentration in Applied Artificial Intelligence is offered in a weekend program format. Students in this weekend program participate together as a learning cohort in a sequence of 11 courses (ten required courses and one tool of research course). Most courses run for six weekend (Friday and Saturday) sessions. Students complete the degree requirements and comprehensive exam in 24 months.

Degree Requirements

- A total of 30 credit hours of computer science course work (plus the 3-credit tool of research course or equivalent) with a grade point average of at least 3.00.
- Comprehensive examination

Course Requirements

- 41.505 Mathematical Logic (3) (satisfies the tool of research requirement; may be waived by the department if a student demonstrates previous equivalent course work)
- 64.520 Algorithms and Data Structures (3)
- 64.521 Design and Organization of Programming Languages (3)
- 64.540 Computer System Organization and Programming (3)
- 64.568 Artificial Intelligence (3)
- 64.630 Expert Systems (3)
- 64.634 Domain-Specific Application Area (3)
- 64.580 Neural Networks (3)
- 64.585 Artificial Intelligence Programming (3)
- 64.680 Advanced Artificial Intelligence (3) (non-thesis option course, must be passed with a grade of B or better)
- 64.694 Capstone Project (3) (non-thesis option course, must be passed with a grade of B or better)

M.S. in Information Systems

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have taken 64.210 Introduction to Computer Information Systems or equivalent, a semester of college mathematics, and have the ability to program in a structured higher-level language.

One way of satisfying the prerequisites for the Information Systems master's program is through the Bridge Program, which allows students with a bachelor's degree in any discipline to qualify for graduate enrollment by taking a collection of computing and computing-related courses.

The Bridge Program in Information Systems requires the completion of a maximum of seven courses; however, courses

may be waived if a student has substantial knowledge of the material covered in the courses. Four Bridge courses may be counted toward the master's degree requirements. Students who complete the Bridge Program will receive a certificate of completion. For more information, students should contact the Special Programs Advising Center at (202) 885-2500.

Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
 - Tool of research: 64.606 Quantitative Analysis for Information Systems
 - Comprehensive examination
 - Six credits of thesis or nonthesis option
- Courses taken to satisfy tool of research and thesis or nonthesis option must be passed with grades of B or better.

Course Requirements

- 64.511 Concepts in Systems and Information (3)
 - 64.515 Human Factors in Information Systems (3)
 - 64.560 Systems Analysis and Design (3)
 - 64.606 Quantitative Analysis for Information Systems (3)
 - 64.662 Information Systems Management (3)
 - 64.635 Computer Systems Applications: Database Management (3)
 - Four additional courses numbered 64.5xx or 64.6xx
 - Thesis option: 64.797 Master's Thesis Seminar (6) and an oral defense of the thesis
- Nonthesis option:
64.665 Analysis and Design Workshop (3)
64.760 Information Systems Seminar (3)

Weekend Graduate Program in Information Systems

Students in the M.S. in Information Systems weekend program participate together as a learning community in 12 sequenced courses. Most courses run for six weekend sessions (Friday and Saturday). Students complete the degree requirements and comprehensive exam in 24 months. For more information call the Special Programs Advising Center at (202) 885-2500.

M.S. in Statistical Computing

For a description of this program, see listing under Mathematics and Statistics in this chapter.

Graduate Certificate in Information Systems

Admission to the Program

Requires a bachelor's degree from an accredited college or university, the equivalent of 64.210 Introduction to Computer Information Systems, a semester of college mathematics, and ability to program in a structured higher-level language.

Course Requirements (18 credit hours)

Students must complete the courses with a grade point average of 3.00 or higher. All courses must be completed with a grade of C or better.

- 64.511 Concepts in Systems and Information (3)
- 64.515 Human Factors in Information Systems (3)
- 64.560 Systems Analysis and Design (3)
- 64.606 Quantitative Analysis for Information Systems (3)
- 64.662 Information Systems Management (3)
- 64.635 Computer Systems Applications: Database Management (3)

Graduate Certificate in Information Resources Management (IRM)

The Information Resources Management (IRM) graduate certificate program prepares students to understand the intrinsic worth of information that is automated, and how to build, maintain, distribute, and manage information systems in organizations. American University's IRM certificate program satisfies the guidelines of the U.S. General Services Administration's IRM Certificate Program requirements.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have taken 64.210 Introduction to Computer Information Systems or equivalent, a semester of college mathematics, and have the ability to program in a structured higher-level language.

One way of satisfying the prerequisites for the Information Resources Management certificate program is through the Bridge Program, which allows students with a bachelor's degree in any discipline to qualify for graduate certificate enrollment by taking a series of computing and computing-related courses. For more information about the Bridge Program, students should contact the Special Programs Advising Center at (202) 885-2500.

Course Requirements (18 credit hours)

Students must complete the courses with a grade point average of 3.00 or higher. All courses must be completed with a grade of C or better.

- 64.511 Concepts in Systems and Information (3)
- 64.661 Telecommunications and Management Information (3)
- 64.668 Data Resources Management (3)
- 64.670 Information Resources Management (3)
- Six credits from the following:
 - 64.515 Human Factors in Information Systems (3)
 - 64.560 Systems Analysis and Design (3)
 - 64.640 Economics of Information Systems (3)
 - 64.667 Information Engineering (3)

Graduate Certificate in Systems and Project Management (SPM)

The Systems and Project Management (SPM) graduate certificate program prepares students to understand current and emerging issues related to the orderly analysis, design, development, implementation, operation, maintenance and replacement of information systems, including both management and technology.

Admission to the Program

Students must satisfy university requirements for admission to certificate programs. In addition, admission to this program is limited to students with basic knowledge of computing principles and practices, derived from either course work, work experience, or both, obtained within seven years prior to admission to the program.

Applications are available from the Special Programs Advising Center. Students submit applications with official transcripts to the Advising Center. All applications are reviewed and approved by the department's faculty before students are admitted to the program. Up to 3 credit hours of equivalent graduate course work with a grade of B or better earned at an accredited college or university may be applied toward the certificate.

The requirement for 64.511 Concepts in Systems and Information may be waived for applicants who demonstrate equivalent work experience. Requests for waiver are submitted and reviewed in accordance with university policies.

All transfers, substitutions and waived credits must be approved in writing by the Department of Computer Science and Information Systems and be on file in the Advising Center.

Course Requirements (15 credit hours)

Students must complete the courses with a grade point average of 3.00 or higher. All courses must be completed with a grade of C or better. No more than 9 credit hours at the 500-level should be taken.

- Nine credit hours from the following:
 - 10.601 Project Business Management (3)
 - 64.650 Advanced Project Management with Software Emphasis (3)
 - 64.511 Concepts in Systems and Information (3)
 - 64.555 Systems Engineering Process (3)
 - 64.647 Project Management and Project Leadership (3)
- Six credits from the following:
 - 64.510 Legal Issues in Computing (3)
 - 64.515 Human Factors in Information Systems (3)
 - 64.560 Systems Analysis and Design (3)
 - 64.606 Quantitative Analysis for Information Systems (3)
 - 64.640 Economics of Information Systems (3)
 - 64.661 Telecommunications and Management Information Systems (3)
 - 64.663 Intelligent Information Systems (3)
 - 64.667 Information Engineering (3)
 - 64.668 Data Resources Management (3)
 - 64.670 Information Resource Management (3)

Economics

Chair Robert Feinberg

Full-Time Faculty

Professor Emeritus B. Bergmann, W.D. Bowles,
T.F. Dernburg, W. Hunsberger, A. Waterston, J.H. Weaver

Professor I.E. Broder, R. Feinberg, R. Hahnel, R. I. Lerman,
R. Müller, L.B. Sawers, D. Schydrowsky, P.C. Thanh,
H.M. Wachtel, J. D. Wisman

Associate Professor R.A. Blecker, A. Golan, F. Graham,
M. Hazilla, T. Husted, A. Isaac, J. Lane, M. Meurs, W. Park,
J. Willoughby

Assistant Professor K. Carey, M. Floro, S. Headlee,
D. Nickerson

The Department of Economics at American University emphasizes economic studies that enable graduates to participate actively in the process of finding answers to the important economic questions that face our society and other nations of the world. Emphasis is placed on viewing economic problems in both their domestic and international contexts.

The university's location in Washington, D.C. enables it to assist students and graduates in obtaining employment and internships in several of the world's most important economic institutions, including the World Bank, the International Monetary Fund, research institutes, and the treasury, labor, and commerce departments. Many of our graduates are able to find policy making positions in the public and private sectors of both the United States and other nations.

The Department of Economics adopts a pluralistic approach to economics education that includes neoclassical and Keynesian economics, historical and institutional economics, and political economy. International economic issues receive special emphasis, as do such socially important topics as the economics of gender. The neoclassical and Keynesian traditions form the core of economic theory that our majors are expected to master. The study of economic history, the history of economic thought, and alternative economic methodologies alert students to divergent perspectives and to the role of institutions. Courses in Marxian economic theory, in comparative economic policies, and in post-Keynesian economics widen the range of fields available. Courses in specialized fields of economics deal with monetary economics, public finance and government, economic policy, development, the structure of U.S. industry, international trade and finance, and trends in earnings and employment.

UNDERGRADUATE PROGRAMS

There are two economics majors, Economics and Economic Theory. Within each major, students may choose a general or international track. The Economic Theory major provides rigorous training in economic theory, econometrics, and quantitative skills and prepares the student for a research position or graduate work in economics. The Economics major combines economic theory with applied fields and is designed to allow the student the flexibility of a double major with other departments in the College of Arts and Sciences, the School of International Service, the Kogod College of Business Administration, the School of Public Affairs and the School of Communication.

Admission to the Programs

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and the approval of the department undergraduate adviser. The department counsels freshmen and transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

B.A. in Economics

Tracks

General or International

Major Requirements

- A total of 43-55 credit hours with grades of C or better

Course Requirements

Core

- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 42.202 Basic Statistics (4)

General Track

- Six Economics (19.xxx) courses at the .300 level or above:
At least one course must be related to the economics of other countries or international economics. No more than 6 credit hours may be fulfilled by Washington Economic Policy Semester courses, economics courses from American University study abroad programs or the honors senior capstone course (19.498/499 Senior Honors I/II).

Note: Independent reading and study courses, internships and co-ops require permission of the undergraduate adviser to count toward this requirement.

- Related Course Requirement: three courses selected from the following:
03.xxx Anthropology (.300 level or above)
10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx Business Administration (14.240 Principles of Financial Accounting and .300 level or above)
17.xxx Communication (.300 level or above)
29.xxx History (.300 level or above)
33.xxx International Studies (.300 level or above)
41.xxx Mathematics (.200 level or above)
42.xxx Statistics (.200 level or above)
53.xxx Government (.300 level or above)
57.xxx Psychology (.300 level or above)
60.xxx Philosophy (.300 level or above)
64.xxx Computer Science (.200 level or above)
65.xxx Sociology (.300 level or above)
73.xxx Justice (.300 level or above)

Note: The specific courses must be approved by the undergraduate adviser.

International Track

- International Economics Sequence:
19.371 International Economics: Trade (3)
19.372 International Economics: Finance (3)
- One of the following:
19.302 Comparative Economics Systems (3)
19.307 Political Economy of Economic Development (3)
19.552 Economic Transition in Eastern Europe and New Independent States (3)
19.555 The Political Economy of Latin American Development (3)
- Two additional Economics (19.xxx) courses at the .300 level or above (excluding 19.311 International Economics)
- One of the following:
12.300 Fundamentals of International Business (3)
12.302 International Finance (3)
33.385 U.S. Foreign Economic Policy (3)
33.465 Contemporary International Trade and Investment Policies (3)
33.466 Contemporary International Monetary, Finance, and Energy Policies (3)

- Related Course Requirement: two courses selected from the following:
03.xxx Anthropology (.300 level or above)
10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx Business Administration (14.240 Principles of Financial Accounting and .300 level or above)
17.xxx Communication (.300 level or above)
29.xxx History (.300 level or above)
33.xxx International Studies (.300 level or above)
37.xxx Language and Foreign Studies (.300 or above)
41.xxx Mathematics (.200 level or above)
42.xxx Statistics (.200 level or above)
53.xxx Government (.300 level or above)
57.xxx Psychology (.300 level or above)
60.xxx Philosophy (.300 level or above)
65.xxx Sociology (.300 level or above)
64.xxx Computer Science (.200 level or above)
73.xxx Justice (.300 level or above)

Note: The specific courses must be approved by the undergraduate adviser.

- 10–12 credits or demonstration of intermediate level or higher competence in one modern foreign language
- A minimum of 3 credits from the following as a Capstone:
19.392 Cooperative Education Field Experience or
19.491 Internship (placement in international economics)
19.480 Research Seminar in Economics (3) (research project on international issues)
Economics courses taken as part of a study abroad program

B.A. in Economic Theory

Tracks

General or International

Major Requirements

- A total of 53–65 credit hours with grades of C or better

Course Requirements

Core

- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 19.310 Introduction to Econometrics (3)
- 41.211 Applied Calculus I (4)
or
41.221 Calculus I (4)
- 42.202 Basic Statistics (4)

General Track

- One of the following:
19.340 Applied Research Methods in Economics (3)
64.280 Introduction to Computer Science I (4)

- One of the following:
19.371 International Economics: Trade (3)
19.372 International Economics: Finance (3)
- One of the following:
19.308 History of Economic Development (3)
19.317 Political Economy (3)
19.319 Economic Development of the United States (3)
19.320 History of Economic Ideas (3)
- Four Economics (19.xxx) courses at the 300 level or above
- Related Course Requirement: three courses selected from the following:
03.xxx Anthropology (.300 level or above)
10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx Business Administration (14.240 Principles of Financial Accounting and .300 level or above)
17.xxx Communication (.300 level or above)
29.xxx History (.300 level or above)
33.xxx International Relations (.300 level or above)
41.xxx Mathematics (.200 level or above)
42.xxx Statistics (.200 level or above)
53.xxx Government (.300 level or above)
57.xxx Psychology (.300 level or above)
60.xxx Philosophy (.300 level or above)
64.xxx Computer Science (.200 level or above)
65.xxx Sociology (.300 level or above)
73.xxx Justice (.300 level or above)
- 41.xxx Mathematics (.200 level or above)

Note: The specific courses must be approved by the undergraduate adviser.

- 19.480 Research Seminar in Economics (3) (research project on international issues)

International Track

- International Economics Sequence:
19.371 International Economics: Trade (3)
19.372 International Economics: Finance (3)
- One of the following:
19.302 Comparative Economics Systems (3)
19.307 Political Economy of Economic Development (3)
19.552 Economic Transition in Eastern Europe and New Independent States (3)
19.555 The Political Economy of Latin American Development (3)
- Two additional Economics (19.xxx) courses at the .300 level or above (excluding 19.311 International Economics)
- One of the following from other departments:
12.300 Fundamentals of International Business (3)
12.302 International Finance (3)
33.385 U.S. Foreign Economic Policy (3)
33.465 Contemporary International Trade and Investment Policies (3)
33.466 Contemporary International Monetary, Finance, and Energy Policies (3)

- Related Course Requirement: two additional courses selected from the following:
03.xxx Anthropology (.300 level or above)
10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx Business Administration (14.240 Principles of Financial Accounting and .300 level or above)
17.xxx Communication (.300 level or above)
29.xxx History (.300 level or above)
33.xxx International Relations (.300 level or above)
37.xxx Language and Foreign Studies (.300 or above)
41.xxx Mathematics (.200 level or above)
42.xxx Statistics (.200 level or above)
53.xxx Government (.300 level or above)
57.xxx Psychology (.300 level or above)
60.xxx Philosophy (.300 level or above)
64.xxx Computer Science (.200 level or above)
65.xxx Sociology (.300 level or above)
73.xxx Justice (.300 level or above)

Note: The specific courses must be approved by the undergraduate adviser.

- 10–12 credits or demonstration of intermediate level or higher competence in one modern foreign language
- 6 credits from the following as a Capstone:
19.392 Cooperative Education Field Experience or
19.491 Internship (placement in international economics)
19.480 Research Seminar in Economics (3) (research project on international issues)

Economics courses taken as part of a study abroad program

Study Abroad Programs

American University World Capitals Program offers study abroad programs in which students take courses, participate in internships, and interact with public officials and political leaders. Economic policy is the focus of the semester in Paris, which may be used to fulfill the Capstone requirement. Students wishing to use courses from other study abroad programs to count as their capstone must obtain approval of the undergraduate adviser.

Special Opportunities

A chapter of Omicron Delta Epsilon, the economics honor society, is active on campus. Membership requires an overall grade point average of 3.25 and a grade point average of 3.50 in economics courses. See the undergraduate adviser for further eligibility requirements.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Communication, Legal Institutions, Economics, and Government (CLEG)

An interdisciplinary major in Communication, Legal Institutions, Economics, and Government is available. Consult the School of Public Affairs chapter of this publication.

Washington Semester in Economic Policy

This special one semester undergraduate program draws on the unique environment of Washington, D.C. to introduce students to governmental policy making as it relates to international and domestic economic policy through seminars, internships, and research. Students earn undergraduate credit which may be applied toward the requirements for a bachelor's degree.

Admission to the Program

The program is open to American University students and students of affiliated institutions from across the country. Requirements for admission to the program are: (1) nomination by a Washington Semester Program faculty representative; (2) a minimum grade point average of 2.50 (on a 4.00 scale); (3) introductory courses in economics; and (4) at least second-semester sophomore standing at the time of participation.

Requirements

- 19.383 Washington Economic Policy Semester Seminar I (4)
- 19.384 Washington Economic Policy Semester Seminar II (4)
- 19.385 Washington Economic Policy Semester Internship (4)
or
- 19.390 Independent Reading Course in Economics (4)
- One course from the regular university evening course offerings

Minor in Economics

Requirements

- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- Six additional credit hours in economics at the 300 level or above (not including independent study, Washington Semester courses, internships, or co-ops)

Combined B.A. and M.A. in Economics

This program enables students to complete the B.A. and M.A. in Economics in five years.

Admission to the Program

Students will be admitted formally to M.A. status only after they have completed all requirements for the B.A. in Economics with a minimum cumulative grade point average of 3.00. Students should apply to the program in their junior year.

Students in this program will not be required to take the Graduate Record Examination.

Requirements

- All requirements for the B.A. in Economics
 - All requirements for the M.A. in Economics
- Students may apply 6 credit hours of approved course work in economics to satisfy the requirements of both degrees.

GRADUATE PROGRAMS

Master's programs include the M.A. in Development Banking, the M.A. in Economics, and the M.A. in Financial Economics for Public Policy. The Ph.D. in Economics offers tracks in Economics and Political Economy.

Admission to the Master's Programs

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record and two letters of recommendation. The Graduate Record Examination is recommended. Admission is not automatic for students who qualify and may be limited by programmatic constraints.

A student whose undergraduate background does not meet the standards for admission may be considered for admission after completing 12 credit hours of approved graduate course work in nondegree status with a grade point average of at least 3.00 (on a 4.00 scale). 19.500 Price Theory, 19.501 Income Theory, and 19.505 Quantitative Analysis of Economic Models must be taken within these 12 hours.

M.A. in Development Banking

Degree and Major Requirements

- A total of 36 credit hours of approved graduate work:
Course work includes 27 credit hours of core requirements and 9 credit hours in specialized courses.
- One comprehensive examination covering the core courses is required. It must be taken before the student has completed his or her first 24 credit hours. Students are allowed two retakes.
- Prerequisite credit does not count toward the degree. All courses must be taken for grades (the pass/fail option is not permitted).

Course Requirements

Prerequisite Courses

- 18.607 Financial Accounting Concepts and Applications (2)
- 19.300 Price Theory (3) *and*
19.301 Income Theory (3)
or
19.603 Introduction to Economic Theory (3)
- 42.202 Basic Statistics (4)

Waiver of these prerequisites may be granted for qualified persons with comparable prior education or experience.

Core Courses (27 credit hours)

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.522 Econometrics (3)
- 19.610 Cost Benefit and Planning (3)
- 19.611 Survey of International Economics (3)
- 19.632 Development Banking (3)
- 19.635 International Capital Markets Workshop (3)
- 19.661 Economic Development Policy (3)

Note: 19.500, 19.501, and 19.522 (or approved substitute) must be completed within the first 12 credit hours and with grades of B or better. 19.521 Mathematical Economic Analysis is recommended.

Specialized Courses (9 credit hours)

- Nine credit hours from the following:
18.614 Financial Management (3)
19.531 Financial Markets (3)
19.541 Public Economics (3)
19.546 Industrial Organization (3)
19.547 Economics of Regulation (3)
19.564 Development Finance (3)
19.660 Survey of Economic Development (3)
19.788 Seminar in Economic Development (3)

M.A. in Economics**Degree and Major Requirements**

- A total of 33 credit hours of approved graduate work:
Course work includes 12 hours of core requirements, at least 6 hours of course work within one field of concentration, and 15 hours of electives, including 6 hours of research. Prerequisite credit does not count toward the degree. All courses must be taken for grades (the pass/fail option is not permitted).
No more than 40 percent of course work and no more than 6 hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.
- One comprehensive examination covering either core courses or the student's concentration is required. It must be taken before the student has completed his or her first 24 credit hours. Students are allowed two retakes.
- Thesis or two nonthesis seminars or two independent research projects which have been approved as a nonthesis option, or one seminar and one independent research project, with a minimum grade of B.

Course Requirements**Prerequisite Courses**

- 19.300 Price Theory (3) *and*
19.301 Income Theory (3)
or
19.603 Introduction to Economic Theory (3)

- 42.202 Basic Statistics (4)
- 41.211 Applied Calculus (4)

Waiver of these prerequisites may be granted for qualified persons with comparable prior education or experience. No graduate credit is given for these courses.

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.522 Econometrics (3)

or

19.723 Econometric Methods (3) (Prerequisite: 42.502 Introduction to Mathematical Statistics)

or an approved substitute

Note: 19.500, 19.501, and 19.522 (or approved substitute) must be completed within the first 12 credit hours and with grades of B or better; 19.521 Mathematical Economic Analysis is recommended

- At least 6 credit hours in a field of concentration
- Fifteen credit hours including 6 hours in thesis or nonthesis seminars or independent research with grades of B or better

M.A. in Financial Economics for Public Policy**Degree and Major Requirements**

- A total of 37 credit hours of approved graduate work. Course work includes 22 credit hours of core requirements, 6 credit hours of research requirement, 3 credit hours within four specialized courses, and 6 credit hours of approved electives.
- The research requirement is fulfilled by taking 19.641 Policy Issues in Financial Economics and 19.742 Seminar in Financial Economics (19.691 Internship may be substituted for 19.742 with approval of the adviser) with grades of B or better.
- One comprehensive examination in Financial Economics and Public Policy is required. It must be taken before the student has completed his or her first 24 credit hours. Students are allowed two retakes.

Prerequisite course credit does not count toward the degree. Prerequisites for required courses may only be waived with the adviser's permission. All course must be taken for grades (the pass/fail option is not permitted).

Course Requirements**Prerequisite Courses**

- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 42.202 Basic Statistics (4)
- 41.211 Applied Calculus (4)

Waiver of these prerequisites may be granted for qualified persons with comparable prior education or experience.

Core Courses (22 credit hours)

- 18.607 Financial Accounting Concepts and Applications (2)
- 18.608 Managerial Accounting (2)
- 18.614 Financial Management (3)
- 19.500 Price Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.522 Econometrics (3) *or*
19.723 Econometrics (3)
- 19.531 Financial Markets (3)
- 19.541 Public Economics (3)

Note: 19.500 and 19.522 (or approved substitute) must be completed within the first 12 credit hours and with grades of B or better

Specialized Courses (3 credit hours)

- Three credit hours from the following:
18.672 Equity Analysis (1.5)
18.673 Fixed Income Analysis (1.5)
18.674 Financial Futures and Other Derivative Instruments (1.5)
18.675 Portfolio Management (1.5)
19.564 Development Finance (3)
19.632 Development Banking (3)

Research Requirement (6 credit hours)

- 19.641 Policy Issues in Financial Economics (3)
- 19.742 Seminar in Financial Economics and Public Policy (3) *or*
19.691 Internship (3)

Electives (6 credit hours)

- Six credit hours from the following:
18.672 Security Analysis (3)
18.674 Financial Futures and Other Derivative Instruments (1.5)
18.675 Portfolio Management (1.5)
18.676 Financial Institutions (1.5)
18.678 Quantitative Methods (2)
18.700 International Finance (3)
18.701 International Banking (1.5)
19.552 Economic Transition (3)
19.564 Development Finance (3)
19.632 Development Banking (3)
19.635 International Capital Markets Workshop (3)
19.672 International Finance (3)

Ph.D. in Economics

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (GRE) general tests (verbal, math, analytical). The GRE test in economics is recommended. Admission is based on academic record, test scores, and at least two letters of recommendation. Applicants who are not native speakers of English must submit the results of TOEFL (Test of English as a Foreign Language). In general,

a B+ average for previous undergraduate work or a B+/-A-average for previous graduate work, whichever is more recent, is the minimum required. (Most students admitted have higher grade averages.) As a rule, students are admitted for the fall semester only; application must be made by the previous February 1 in order to be considered for financial support.

Tracks

Economics and Political Economy

Degree and Major Requirements

- A total of 72 credit hours of approved graduate work:
No more than 40 percent of course work and no more than 6 hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.
Credit may be given for previous graduate work in accordance with university regulations described under "University Degree Requirements" in the Graduate Study chapter.
- Tools of research: The following courses must be completed with grades of B- or better:
19.504 Economic Thought (3)
19.521 Mathematical Economic Analysis (3)
19.507 American Economic Development (3) *or*
19.508 European Economic Development (3)
19.723 Econometric Methods (3)
19.724 Advanced Econometric Methods (3)
- Four comprehensive examinations:
Economics track: four comprehensive examinations are required: 19.01B, 19.01C, and comprehensive examinations in two elective fields
Political Economy track: four comprehensive examinations are required: 19.006, 19.06A, and comprehensive examinations in two elective fields
Comprehensive Examination Fields:
19.01B Contemporary Economic Theory: Price
19.01C Contemporary Economic Theory: Income
19.002 History of Economic Thought
19.005 History of Economic Development
19.006 Theory of Political Economy I
19.06A Theory of Political Economy II
19.007 Economic Growth and Development
19.008 Labor Economics
19.009 International Economics
19.010 Economics of Gender
19.011 Comparative Economic Systems and Soviet-type Economies
19.013 Monetary Economics
19.014 Public Finance and Fiscal Policy
19.016 Mathematical Economics
19.018 Industrial Organization
See adviser for specific course requirements for each comprehensive examination field.

- Two research seminars, one each from group A and group B, or two from one group with permission of the Ph.D. adviser:

Group A

Economics track:

- 19.782 Seminar in Empirical Macroeconomics (3) or
- 19.783 Seminar in Empirical Microeconomics (3)

Political Economy track:

- 19.781 Seminar in Political Economy (3)

Group B

A research seminar from the following:

- 19.774 Seminar in Economic Thought (3)
- 19.778 Seminar in Economic History (3)
- 19.784 Seminar in International Trade and Finance (3)
- 19.790 Seminar in Labor Economics (3)
- 19.690 Independent Study Project in a field in which no seminar is offered

- 19.696 Selected Topic course relevant to the student's dissertation field and approved by the Ph.D. adviser

- Dissertation and oral comprehensive

The student obtains approval for the dissertation topic from an interested faculty member in the field who then becomes chair of the dissertation committee. This committee, especially the chair, supervises the preparation of the dissertation and reviews it when it is completed. An oral comprehensive examination on the dissertation proposal is given by the committee before its submission for approval.

Students must attend the dissertation seminar in their third year, or when they are working on their dissertation proposals. Between 6 and 24 credits of 19.799 Doctoral Dissertation Seminar, which must be taken pass/fail, are taken while students complete their proposals and prepare dissertations.

After the completed dissertation is submitted to the committee, a final oral examination is held.

Special Opportunities

The Simon Naidel Dissertation Fellowship is awarded annually for a promising dissertation close to completion.

Several student prizes are awarded each spring: the Simon Naidel Prize for the best performance on a comprehensive examination in economic theory, the Frank Tamagna Prize for excellence in international finance and monetary economics, and the José Epstein Prize in Development Banking.

Graduate Certificate in Applied Economics

Admission to the Program

Open to students with a bachelor's degree

Requirements

- A total of 15 credit hours of approved graduate work. Course work includes 9 credit hours of core requirements and 6 credit hours of electives
- Prerequisite credit does not count toward the certificate. All courses must be taken for grades (the pass/fail option is not permitted).

Course Requirements

Prerequisite Courses

- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 42.202 Basic Statistics (4)

Prerequisites may be waived on the basis of previous education or experience

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.522 Econometrics (3)

Electives

- Six credit hours from the following:
 - 19.505 Quantitative Analysis of Economic Models (3)
 - 19.532 Monetary Theory and Policy (3)
 - 19.541 Public Economics I (3)
 - 19.551 Theory of International Trade and Multinational Corporations (3)
 - 19.571 Labor Economics: Theory (3)
 - 19.610 Cost Benefit and Planning (3)
 - 19.660 Survey of Economic Development (3)
- Other approved electives may be substituted

School of Education

Dean Charles A. Tesconi, Jr.

Director of Teacher Education M. Wineburg

Full-Time Faculty

Professor Emeritus S. Burr, C.A. Gross, B.A. Hodinko,
F. Holliday, P.D. Leedy, N.J. Long

Professor F. Jacobs, D. Sadker, S.L. Smith, C.A. Tesconi, Jr.

Associate Professor Emeritus/a F.E. Huber,

C.E. Messersmith, D.D. Miller, R. Ralph

Assistant Professor L. Fox, S. Irvine, A. Prejean,

D. Thompson

The School of Education (SOE) offers programs that prepare teachers, educational leaders and managers, educational specialists, and researchers for careers in schools, colleges and universities, federal, state and local government agencies, and community and professional organizations. These programs provide students with opportunities to collaborate with professionals in federal agencies, local public schools, and area educational organizations through internships, practice, and research projects. Students are encouraged to see themselves as educational leaders for the next century and they are challenged accordingly. Graduates hold important teaching and leadership positions in a wide variety of educational settings at all levels. Degree programs can be completed on a full- or part-time basis.

The school's faculty and programs demonstrate a commitment to the advancement of knowledge about the nature, function and practice of education. Faculty conduct a wide range of research initiatives with emphasis on equity, gender, multiculturalism, socioeconomic status, the needs of special learners, the infusion of technology into education, higher education management, adult learning, and the relationship of government and public policy to education. Themes common to faculty research and SOE programs include equal educational opportunity, meeting the needs of special learners, instructional effectiveness, and research-informed policy development. Students benefit from working with a highly qualified and dedicated faculty in small classes, and from opportunities to participate in ongoing faculty research aimed at influencing educational policy and practice.

Teacher Education Program

Selective admissions criteria allow the School of Education to emphasize early and sustained contact with children and youth. Students work closely with master teachers and clinical supervisors in their field placements in both urban and suburban settings in and around Washington, D.C. The teacher preparation programs benefit from the rich resources of the Washington area, including opportunities for internships in settings such as the Challenger Center for Space Science Education, the National Museum of Natural History and the Washington Lab School, a private school for students with learning disabilities.

Field Placements

Field experiences, practicum placements and student teaching take place in the District of Columbia and the greater Washington metropolitan area, and are designed to give students experience in both urban and suburban schools. The director of Teacher Education arranges assignments, taking into account student needs and preferences.

Accreditation and Certification

The B.A. in Elementary Education, second major in Secondary Education, Master of Arts in Teaching (M.A.T.) and M.A. in Education: Special Education: Learning Disabilities are accredited by the National Association of State Directors of Teacher Education and Certification (NASDTEC). The following secondary subjects are accredited by NASDTEC: biology, chemistry, dance, drama, English, French, German, mathematics, physics, Spanish, general science, and comprehensive social studies. Students interested in other subjects may be certified by the District of Columbia. Consult the director of Teacher Education for more information.

Students admitted to graduate teacher education programs may be required to complete additional course work in order to be eligible for NASDTEC accreditation upon graduation. Students will be informed of additional requirements upon admission.

Students who complete accredited teacher preparation programs and pass the appropriate national teacher examinations are eligible to apply for teacher certification (licensure) in the District of Columbia, and through such certification are eligible for reciprocal certification in over 30 states. Some states may require additional courses or national teacher examinations.

Ongoing Assessment of Academic and Professional Performance

To remain in the Teacher Education Program, students must maintain cumulative grade point averages specific to each program; receive satisfactory evaluations in field and methods placements; obtain a satisfactory annual evaluation from the Teacher Education Committee based upon academic, professional, and performance criteria established by the committee; and meet specific course grade requirements. Students in the B.A. in Elementary Education program must maintain an overall cumulative grade point average of 2.70 or higher. Students in the undergraduate second major in Secondary Education must maintain an overall grade point average of 2.70 and 3.00 or higher in their primary major. Graduate students in the M.A.T. and the M.A. in Education programs must maintain a cumulative grade point average of 3.00 or higher.

Professional Education Programs

The M.A. in Education: Educational Leadership is designed for those who want to be effective managers, administrators and leaders in educational settings. The administration and supervision concentration in the Educational Leadership program is designed for students preparing for positions as school

administrators and is approved by the District of Columbia Teacher Education Certification Office.

The M.A. in Education: Specialized Studies enables students to develop advanced specializations in education. The programs have opportunities for internships, practica, and independent study in areas ranging from day care to settings for the elderly and from independent regulatory agencies to state offices responsible for education policy and implementation.

UNDERGRADUATE PROGRAMS

The School of Education offers a Bachelor of Arts in Elementary Education and a second major in Secondary Education, which lead to eligibility for certification to teach. Minors in Education Studies and Special Education are also offered.

Admission to Candidacy in Teacher Education

Undergraduates seeking teacher certification in elementary or secondary education should contact an adviser in the School of Education as early as possible. Admission to the university and declaration of a major does not constitute admission to candidacy in teacher education, which is based on course work and performance criteria. To be admitted to candidacy, students must: earn an average grade of 2.70 or higher in 21.200 Schools and Society and 21.320 Psychology of Education, pass 21.321 Field Experience: Observation and Analysis, receive satisfactory recommendations from faculty and have an overall cumulative grade point average of 2.70 or higher. Secondary Education majors must also have a 3.00 grade point average in their primary major. The Teacher Education Committee reviews student applications and makes decisions regarding admission to candidacy.

Liberal Arts and Science Requirements for Teacher Certification

To qualify for teacher certification, students must have completed all of the requirements from the specific curricular areas listed below. These requirements may overlap with General Education requirements. Students in Secondary Education must also meet subject-area certification standards. Consult a School of Education adviser for more information.

- Three credit hours in mathematics or statistics and probability beyond the University Mathematics Requirement
- Six credit hours in literature
- Three credit hours in music
- Three credit hours in studio art
- Two credit hours in health and nutrition
- Two credit hours in health and fitness
- Six credit hours in the social sciences including 3 credit hours in U.S. history
- Three credit hours in the biological sciences
- Three credit hours in the physical sciences

Note: one of the sciences must include a lab.

B.A. in Elementary Education

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Note: Students must consult with an adviser from the School of Education as early as possible to discuss the coordination of General Education Requirements with certification requirements.

Major Requirements

- A total of 58 credit hours of major course requirements with grades of C or better

Course Requirements (58 credits)

- 21.200 Schools and Society 4:2 (3)
- 21.250 Mathematics for Elementary School Teachers (3)
- 21.319 Children's Literature: Multicultural and International Approaches (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1)
- 21.330 Instructional Strategies and Teaching Methods (3)
- 21.362 Classroom Management (3)
- 21.371 Foundations of Reading Instruction (3)
- 21.541 Foundations of Special Education for Exceptional Children (3) *or*
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- 21.552 Teaching Mathematics in Elementary Education (2)
- 21.553 Teaching Language Arts in Elementary Education (2)
- 21.554 Teaching Social Studies in Elementary Education (2)
- 21.555 Teaching Reading in Elementary Education (3)
- 21.556 Teaching Science in Elementary Education (3)
- 21.599 Student Teaching (15)
- Two of the following courses:
 - 21.212 Methodology of Sign Language (3)
 - 21.325 Global Education (3)
 - 21.389 Gender and Schooling (3)
 - 21.390 Independent Reading Course in Education (1–6)
 - 21.402 Methods of Teaching Children with Learning Disabilities (3)
 - 21.490 Independent Study Project in Education (1–6)
 - 21.491 Internship in Education (3–9)
 - 21.519 The Uses of Technology in Education (3)

67.450 Rotating Topics in Theatre:

Children's Theatre (3)

Creative Dramatics (3)

57.350 Child Psychology (3)

Students may substitute other courses with permission of the adviser.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the school and, upon the school's recommendation, graduate with University Honors in the major. The school's Honors coordinator advises students in the University Honors Program regarding school options. See the section on the University Honors Program in this catalog for further details.

Secondary Education

The undergraduate program in Secondary Education is designed for students who wish to obtain teaching credentials in secondary education while completing their majors in the humanities, arts, natural and social sciences. To do so, students complete a second major in Secondary Education designed to meet certification requirements in the District of Columbia and make them eligible for certification in over 30 states.

Note: Students should consult with the director of Teacher Education to coordinate their general and subject-area certification requirements with other university and major requirements.

Major Requirements

- Thirty-six credit hours in Secondary Education course requirements with grades of C or better
- Completion of the major requirements with a cumulative grade point average of 3.00 in one of the following: American Studies; Anthropology; Biology; CLEG (Communication, Legal Institutions, Economics and Government); Chemistry; Economics; Environmental Studies; French Studies; Foreign Language and Communication Media; Justice, German Studies; History; International Studies; Language and Area Studies; Law and Society; Literature; Mathematics; Statistics; Performing Arts: Theatre; Performing Arts: Music Theatre; Physics; Political Science; Spanish Studies; or Sociology.

Course Requirements

- 21.200 Schools and Society 4:2 (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1)
Note: 21.200, 21.320, and 21.321 must be taken prior to application for admission to the Teacher Education Program.
- 21.362 Classroom Management (3)
- 21.520 Reading, Writing, and Literature across the Curriculum (3)
- 21.522 Principles of Effective Methods and Instruction (3)

- 21.540 Methods and Materials in Secondary Education (3) (or other methods courses offered by arts and sciences departments and approved by the SOE adviser)
- 21.541 Foundations of Special Education for Exceptional Children (3) *or*
21.545 Overview of all Exceptionalities: The Arts in Special Education (3)
- 21.599 Student Teaching (12)
- 21.xxx Elective (2–3) as approved by SOE adviser

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the school and, upon the school's recommendation, graduate with University Honors in the major. The school's Honors coordinator advises students in the University Honors Program regarding school options. See the section on the University Honors Program in this catalog for further details.

Minor in Education Studies

The minor in Education Studies accommodates undergraduate students interested in the study of education as a liberal or social science discipline. It serves students who intend to pursue graduate study in education or related fields, those who wish to explore career opportunities in education and related fields, and those whose primary job and career opportunities are enhanced through the study of education.

Requirements

- A total of 21 credit hours (seven courses) with grades of C or better

Course Requirements

- 21.200 Schools and Society 4:2 (3)
- 21.320 Psychology of Education (3)
- Six credit hours from the following:
21.319 Children's Literature: Multicultural and International Approaches (3)
21.389 Gender and Schooling (3)
57.300 Cognitive Psychology (3)
65.285 Education for International Development 3:2 (3)
- Nine credit hours from the following:
03.544 Topics in Applied Anthropology:
Anthropology of Education (3)
21.490 Independent Study Project in Education (1-6) (permission of the SOE adviser required)
21.491 Internship in Education (3-9) (permission of the SOE adviser required)
21.496 Selected Topics (permission of the SOE adviser required) (3)
21.519 The Uses of Technology in Education (3)
21.541 Foundations of Special Education for Exceptional Children (3) *or*
21.545 Overview of All Exceptionalities: The Arts in Special Education (3)

38.522 Language Acquisition (3)

38.528 Bilingual Education (3)

65.545 Global and Multicultural Education (3)

Other courses may be substituted with permission of the SOE adviser

Minor in Special Education

For students interested in broadening their knowledge and understanding of education for students with special needs, the School of Education offers a minor in Special Education. Students seeking certification to teach or who plan to pursue graduate education in this field are especially well served by this program. There are internship opportunities at the Lab School of Washington, which has been internationally recognized for pioneering work in educating students with learning disabilities.

Requirements

- A total of 18 credit hours with grades of C or better

Course Requirements

- 21.200 Schools and Society 4:2 (3)
- 21.230 Psychology of Education (3)
- 21.402 Methods of Teaching Children with Learning Disabilities (3)
- 21.490 Independent Study in Education (1-6) *or*
21.491 Internship in Education (3-9)
- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.541 Foundations of Special Education for Exceptional Children (3) *or*
21.545 Overview of All Exceptionalities: The Arts in Special Education (3)

Other courses may be substituted with approval of an adviser in the School of Education.

Accelerated Bachelor's Degree and Master's in Education Program

Students receive a B.A. or a B.S. in any bachelor's degree program and one of the following: Master of Arts in Teaching (M.A.T.) with a concentration in either elementary or secondary education or English for speakers of other languages, or the M.A. in Education: Special Education: Learning Disabilities track.

Admission to the Program

Students should apply to the M.A. program in the second semester of their junior year. Applicants must have a grade point average of 3.00 (on a 4.00 scale) or higher in major and minor courses and must satisfactorily complete the following:

- 21.541 Foundations of Special Education for Exceptional Children (3) *or*
21.545 Overview of All Exceptionalities: The Arts in Special Education (3)

- For the M.A.T.:

21.521 Foundations of Education (3)

For the M.A. in Education: Special Education: Learning Disabilities:

21.502 Methods of Managing Pupils with Behavior Disorders (3)

Requirements

- All requirements for the B.A. or B.S. in the student's major
- All requirements for the M.A.T. or M.A. in Education: Special Education: Learning Disabilities

Up to 6 credits from 21.502 or 21.521 and 21.541 or 21.545 satisfy both bachelor's and master's requirements

GRADUATE PROGRAMS

The Master of Arts in Education tracks in Educational Leadership and Specialized Studies prepare students for professional and leadership positions in a wide variety of educational settings. The Educational Leadership program prepares students for management positions in college and university administration, student affairs, educational associations, and state and federal agencies or for public school administration. The administration and supervision concentration is approved by the District of Columbia Teacher Education and Certification Office.

The program in Specialized Studies allows students to design an individual program to meet unique interests and aspirations. Education professionals who wish to earn advanced credentials and gain further specialization are especially well served by this program.

The School of Education also offers programs that lead to K-12 certification. Students interested in teaching in elementary or secondary schools or in programs for English for speakers of other languages (ESOL) enroll in the Master of Arts in Teaching (M.A.T.). Those interested in working as special education resource teachers or in learning disabilities classrooms at all levels enroll in the M.A. in Education track in Special Education: Learning Disabilities.

Option to Waive Course Work in Master's Programs

Students with the appropriate prior study or professional experience in the field of education may be permitted to waive up to 6 credit hours of course work without replacement. The waiving of credit hours and the specific courses to be waived is determined and approved by the adviser and the SOE dean upon admission to a master's program. In addition, one of the following may be required: an assessment provided by an educational institutional or organization which has criteria and evaluation procedures approved by the School of Education; or a portfolio developed in a one-credit independent study offered by SOE and submitted for evaluation and approval to the adviser and SOE dean. The option to waive course work without replacement is not available to students in the M.A. in Education: Specialized Studies.

M.A. in Education

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record General Examination or the Miller Analogies Test. The School of Education faculty recommends that applicants beginning graduate study after five years away from school take the Miller Analogies Test. Students applying to the administration and supervision concentration in the Educational Leadership program must have three years of K-12 teaching experience.

Tracks

Educational Leadership, Special Education: Learning Disabilities, Specialized Studies

Degree Requirements

- Thirty to 39 credit hours of approved graduate work depending on the track
- Comprehensive examination

Course Requirements

Educational Leadership (39 credit hours)

This program is intended primarily for students who are interested in educational management. Students who plan to work in schools select the concentration in Administration and Supervision; students who plan to work in colleges and universities, education agencies and local, state, and federal government select the concentration in Educational Management.

- Twelve credit hours from the following:
 - 21.519 Uses of Technology in Education (3)
 - 21.610 Methods of Inquiry: Utilizing Information Effectively (3)
 - 21.611 Formative Ideas of Contemporary Education (3)
 - 21.612 Educational Equity (3)
 - 21.620 Theories of Educational Psychology and Human Development (3)
- 21.631 Fundamentals of Management in Educational Organizations (3)
- 21.765 Seminar in Educational Leadership (3)
- 21.792 In-Service Training Project (3)

Administration and Supervision

- 21.583 Curriculum Construction and Program Design (3)
- 21.633 Financing Educational Systems (3)
- 21.666 Legal Issues in Education (3)
- 21.682 School Supervision (3)
- 21.693 Personnel and Program Evaluation (3)
- Elective (3)

Educational Management

- Nine credit hours from the following:
 - 21.615 Functions of Education in Social and Historical Perspectives (3)
 - 21.633 Financing Educational Systems (3)
 - 21.634 Education and Public Policy (3)

21.693 Personnel and Program Evaluation (3)

- 21.632 Case Studies in Educational Management (3)
- 21.639 Effective Leadership Skills (3)
- Elective (3)

Special Education: Learning Disabilities (36 credit hours)

- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3) *or*
 - 21.541 Foundations of Special Education for Exceptional Children (3)
- 21.605 Methods of Psychoeducational Assessment for Learning Disabilities and Emotional Disturbance (3)
- 21.606 Theories and Methods of Diagnostic and Remedial Mathematics (3)
- 21.607 Research Seminar in Special Education (3)
- 21.620 Theories of Educational Psychology and Human Development (3) (or an elective approved by the student's adviser)
- 21.644 Language Development and Remediation (3)
- 21.645 Learning Disabilities I (3)
- 21.646 Learning Disabilities II (3)
- 21.671 Foundations of Reading: Diagnosis and Remediation (3)
- 21.792 In-Service Training Project: Internship with Learning Disabled Children (3–6)

Specialized Studies (30 credit hours)

This program allows students to design individual programs of study in new and emerging fields, such as educational technology, urban education, and adult and experiential learning. Students have considerable flexibility and work closely with a faculty adviser to create a program that best serves their professional goals. Consult a School of Education adviser for further information.

An example is the following recommended program in Adult and Experiential Learning:

- 21.525 Principles of Educational Assessment and Testing (3) *or*
 - 21.620 Theories of Educational Psychology and Human Development (3)
- 21.610 Methods of Inquiry: Utilizing Information Effectively (3)
- 21.611 Formative Ideas of Contemporary Education (3) *or*
 - 21.615 Functions of Education in Social and Historical Perspectives (3)
- 21.640 Rotating Topics in Adult and Experiential Learning (9)
 - or*
 - 21.640 Rotating Topics in Adult and Experiential Learning (6) *and*
 - 21.690 Independent Study Project in Education (3)
- 21.641 Practicum in Adult and Experiential Learning (6)

- Six credits from the following:
 - 21.631 Fundamental of Management in Educational Organizations (3)
 - 21.634 Education and Public Policy (3)
 - 21.639 Effective Leadership Skills (3)
 - 21.693 Personnel and Program Evaluation (3)
- Other graduate level courses approved by the adviser

Master of Arts in Teaching (M.A.T.)

The Master of Arts in Teaching is designed for the student with no previous background or preparation in education who wishes to acquire teaching certification in elementary or secondary education or English for speakers of other languages.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Miller Analogies Test or Graduate Record Examination.

Students seeking secondary education certification must have completed sufficient course work in an area traditionally taught in secondary schools, such as biology, chemistry, dance, English, French, general science, German, mathematics, physics, social studies, Spanish, or theatre.

Students seeking certification in English for speakers of other languages must be proficient in English and another language. Non-native English speakers must score 600 or higher on the Test of English as a Foreign Language (TOEFL). Students who need to gain proficiency in another language may be admitted to the program, but must become proficient in order to be endorsed for certification.

Degree Requirements

- A total of 39 credit hours of approved graduate work, including 33 hours of course work and 6 hours of student teaching with required seminar.

Note: Students' undergraduate transcripts will be evaluated individually; based on this evaluation, students may be required to take additional course work to meet certification requirements.

- Comprehensive examination

Course Requirements

All course work must be approved by the director of the M.A.T. program. Evaluation of field performance may involve videotaping of classroom teaching.

Core (9 credit hours)

- 21.521 Foundations of Education (3)
- 21.541 Foundations of Special Education for Exceptional Children (3) *or*
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- 21.620 Theories of Educational Psychology and Human Development (3)

Student Teaching (6 credits)

- 21.599 Student Teaching with required seminar (6)

Elementary Education Track (24 credit hours)

- 21.519 Uses of Technology in Education (3)
- 21.601 Teaching Methods for Elementary Education: Science, Reading and Language Arts (9)
- 21.602 Teaching Methods for Elementary Education: Social Studies and Mathematics (9)
- 21.619 Children's Literature: Multicultural and International Approaches (3)

Secondary Education Track (24 credit hours)

- 21.520 Reading, Writing, and Literature across the Curriculum (3)
- 21.522 Principles of Effective Methods and Instruction (3)
- 21.540 Methods and Materials in Secondary Education (3) (or other approved methods courses)
- 21.662 Classroom Management (3)
- Four elective courses (12 credit hours), normally with half taken in the academic discipline of the designated teaching area, and the other courses taken within the School of Education

English for Speakers of Other Languages (ESOL) Track (24 credit hours)

- 38.500 Principles of Linguistics (3)
- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- 38.503 Structure of English (3)
- 38.523 Second Language Acquisition (3)
- 38.524 Reading and Writing in the ESL/EFL Classroom (3)
- 38.527 Cultural Issues in the ESL/EFL Classroom (3)
- 38.531 Language Teaching and Testing (3)

Ongoing Assessment of Academic and Professional Performance

Students must be admitted to the M.A.T. program before enrolling in methods courses (21.601/602, 21.522/21.540, or 38.501/502). To enroll in 21.599 Student Teaching, students must receive a positive evaluation from the Teacher Education Committee based on established criteria, a grade of B- or better in 21.521 Foundations of Education and 21.620 Theories of Educational Psychology and Human Development, and grades of B or better in methods courses.

Ph.D. in Education

The doctoral program in the School of Education is designed for education professionals whose career goals include leadership, management, teaching, or research positions in schools, colleges and universities, professional associations, governments and educational associations, and other educational organizations. Emphasis on educational theory and research provides the intellectual skills and foundation for advanced scholarly pursuits. Programs of study are individually designed to accommodate the professional and research interests of students. Students have the opportunity to focus on courses emphasizing the needs and demands made on educa-

tional leaders in a variety of settings. Advisers are assigned to doctoral students based on shared research interests.

See also the Ph.D. in Mathematics Education in the Department of Mathematics and Statistics.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must hold a master's degree in a relevant field and who have a satisfactory score on the Graduate Record Examination or the Miller Analogies Test. The School of Education faculty recommends that applicants who have been away from formal college study for five or more years take the Miller Analogies Test.

Degree Requirements

- At least 72 credit hours of approved graduate work, which may include up to 30 credits from a relevant master's degree
- A program of study approved by the adviser and the Committee on Doctoral Education, submitted prior to the completion of 15 credit hours of doctoral course work in the School of Education
- Advancement to Candidacy
- Dissertation and oral defense of the dissertation. The chair of the Dissertation Committee must be a member of the full-time School of Education faculty.

Two tools of research with grades of B or better (may not be taken pass/fail) and completed before enrollment in 21.790:

- 21.525 Principles of Educational Assessment and Testing (3)
- One of the following:
 - 03.550 Ethnographic Field Methods (3)
 - 42.514 Statistical Methods (3)
 - 54.601 Methods of Problem Solving I (3)
 - 57.550 Psychological Research (3)
 - 64.606 Quantitative Analysis for Information Systems (3)
 - 65.622 Selected Topics in Social Research Skills (1) (three one-credit modules)

Four comprehensive examinations:

- One written examination in Educational Theory and Practice, based on course material from 21.525, 21.610, 21.611, 21.615, and 21.620, which must be completed satisfactorily before enrollment in 21.790
- One written and one oral examination, which must be completed before presentation of the dissertation proposal, in approved support fields:
 - Adult and Experiential Learning
 - Educational Equity
 - Educational Management and Administration
 - Educational Policy
 - Educational Technology
 - Special Education
 - Teaching and Learning
 - Urban Education

Other support fields require approval from the Doctoral Advisory Committee and the dean.

- Successful presentation of the dissertation proposal

Course Requirements

- 21.610 Methods of Inquiry: Utilizing Information Effectively (3)
- 21.620 Theories of Educational Psychology and Human Development (3)

Note: 21.610 and 21.620 must be completed during the first year of enrollment with grades of B or better.

- 21.790 Educational Research (3)
 - Note:* research requirements and two of the three written and oral comprehensive examinations must be completed before enrolling in 21.790.
- Nine credits from the following:
 - 21.519 Uses of Technology in Education (3)
 - 21.611 Formative Ideas of Contemporary Education (3)
 - 21.612 Educational Equity (3)
 - 21.615 Functions of Education in Social and Historical Perspectives (3)
 - 21.631 Fundamentals of Management in Educational Organizations (3)
 - 21.632 Case Studies in Educational Management (3)
 - 21.634 Education and Public Policy (3)
 - 21.639 Effective Leadership Skills (3)
- Nine additional credit hours as approved by the adviser
- Nine hours of dissertation research. Students may enroll for up to 3 credits of dissertation research to prepare the dissertation proposal.

Advancement to Candidacy

Students are admitted to the doctoral program with the expectation that they will be evaluated for degree candidacy at the end of the semester following completion of 18 credits hours of course work, but not later than thirty months after initial enrollment in the doctoral program. To achieve Advancement to Candidacy status, doctoral students must:

- Complete 21.610 and 21.620 (or substitutes approved by adviser) with a grade of B or better
- Complete tools of research with a grade of B or better
- Satisfactorily complete the written comprehensive examination in Educational Theory and Practice
- Successfully present and defend a scholarly paper before a panel of faculty and doctoral students appointed by the Doctoral Education Committee

Evidence of the above is submitted to the faculty adviser who prepares a written assessment of the students's ability to undertake and complete a doctoral dissertation. The student's file is then forwarded to the Doctoral Education Committee; the committee's recommendation is submitted to the SOE dean for final action. Failure to advance to candidacy is cause for dismissal from the doctoral program.

Health and Fitness

Chair Robert C. Karch

Full-Time Faculty

Professor Emeritus/a R.H. Frailey, D.S. Geiser, V.E. Hawke, J.W. Hubbell

Professor R.C. Karch, M.J. Safrit

Associate Professor Emeritus/a P. O'Connor-Finn, L.G. Nyce (Emeritus in Residence), B.J. Reimann

Associate Professor B.G. Coward

Assistant Professor P. Mehler, A. Snelling

B.S. in Health Promotion

The health promotion major provides rigorous academic preparation in scientific and clinical knowledge of exercise physiology, human physiological chemistry, wellness programming, health psychology, and nutrition, as well as organizational/human resource management. This interdisciplinary program combines course work from the Departments of Chemistry, Computer Science and Information Systems, Psychology, and the Kogod College of Business Administration. Experiential learning opportunities are available at federal government agencies and many organizations dealing with health, wellness, education, managed care and physical fitness to meet the internship/cooperative education requirement of the program.

This curriculum prepares students for a health promotion position in a corporate, community, commercial, or school environment, or for graduate work in health-related fields.

Admission to the Program

Formal admission to the major requires a grade point average of 2.70 (on a 4.00 scale) after the freshman year and departmental approval. In addition to the requirements for transfer admission described in the Undergraduate Study chapter, transfer applicants should have maintained a minimum grade point average of 2.70 (on a 4.00 scale). Students with a grade point average between 2.50 and 2.70 may be formally admitted to the major after completion of 15 credit hours with a minimum grade point average of 3.00. For additional information, call (202)885-6275, email: ncnf@american.edu, or www.health.american.edu.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.

- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 57 credit hours with grades of C or better

Course Requirements

- 09.200 Structure and Function of the Human Body 5:2 (3)
 - 10.353 Principles of Organizational Theory, Behavior and Management (3)
 - 15.100 The Molecular World 5:1 (3)
 - 15.506 Human Physiological Chemistry (3)
 - 49.250 Strategies in Stress Reduction (3)
 - 49.318 Fundamentals of Health Promotion Management (3)
 - 49.330 Modern Theories in Health and Wellness (3)
 - 49.333 Leadership for Health Promotion (1)
 - 49.335 Introduction to Health Promotion Programs (3)
 - 49.350 Current Concepts of Nutrition (3)
 - 49.423 Issues in Women's Health (3)
 - 49.425 Exercise Physiology (3)
 - 49.488 Senior Seminar (3)
 - 49.491 Internship in Health Promotion (6) *or*
 - 49.392 Cooperative Education Field Experience (6)
 - 49.540 Health Communication (3)
 - 49.565 Health Assessment and Evaluation of Health Fitness Parameters (3)
 - 57.105 Psychology: Understanding Human Behavior 4:1 (3)
 - 57.333 Health Psychology (3)
 - 64.512 Computer Applications in Health and Fitness (2)
- Note:* 15.506, 49.540, and 64.512 satisfy both B.S. and M.S. requirements (see below).

Minor in Health Promotion

Requirements

A total of 24 credit hours in health promotion with grades of C or better

Course Requirements

- 49.318 Fundamentals of Health Promotion Management (3)
- 49.330 Modern Theories in Health and Wellness (3)
- 49.335 Introduction to Health Promotion Programs (3)
- 49.540 Health Communication (3)
- 49.565 Health Assessment and Evaluation of Health Fitness Parameters (3)
- Nine credit hours from the following, approved by a department adviser:
 - 49.250 Strategies in Stress Reduction (3)
 - 49.270 First Aid, CPR and Medical Emergencies (3)
 - 49.350 Current Concepts of Nutrition (3)
 - 49.423 Issues in Women's Health (3)
 - 49.425 Exercise Physiology (3)

Combined B.S. in Health Promotion and M.S. in Health Fitness Management

This program allows qualified students to earn both a B.S. in Health Promotion and an M.S. in Health Fitness Management in four years of undergraduate study plus an additional year of graduate study.

Admission to the Program

The standards for admission to the B.S. in Health Promotion must first be satisfied (see above). Undergraduates whose overall grade point average is 3.00 or higher will be considered for the combined program. Students should discuss their interest in the program with a Department of Health Fitness adviser before submitting an formal application and apply for admission to the combined program by the end of the junior year.

Course Requirements

- All requirements for the B.S. in Health Promotion
 - All requirements for the M.S. in Health Fitness Management
- A maximum of 8 credit hours from 15.506 Human Physiological Chemistry, 49.540 Health Communication, and 64.512 Computer Applications in Health and Fitness may be used to satisfy the requirements of both degrees.

M.S. in Health Fitness Management

The primary objective of the M.S. in Health Fitness Management is to provide a competency-based, multidisciplinary academic program for individuals dedicated to assuming leadership positions within the health/fitness industry. The curriculum integrates managerial skills with scientific and clinical knowledge of exercise physiology, human biochemistry, behavioral psychology, and nutrition.

Admission to the Program

The program is open to students with varied undergraduate backgrounds and has few science-related academic prerequisites. The academic record and experience of each applicant will be thoroughly reviewed by the program director. The minimum university requirements for admission to graduate study are a bachelor's degree earned at an accredited college or university and a 3.00 cumulative grade point average (on a 4.00 scale) for the last 60 credit hours of undergraduate study. A satisfactory score on the Graduate Record Examination (GRE) or the Graduate Management Admissions Test (GMAT) is required for admission. Program prerequisites include human anatomy and physiology and exercise physiology.

International applicants who are fluent in written and spoken English are welcomed and encouraged to apply. To be considered for admission, applicants must meet university requirements for writing and speaking English.

All applicants must submit an additional reference and a supplementary graduate application directly to the Department of Health and Fitness. For additional information, call (202)885-6275, email: nchf@american.edu, or www.healthfitness.american.edu.

Degree and Major Requirements

- A total of 42 credit hours of graduate work
- Tool of research: students must complete the tool of research examination or 42.514 Statistical Methods with a grade of B or better
- Thesis or internship option
- One written and one oral comprehensive examination

Course Requirements

- 15.506 Human Physiological Chemistry (3)
- 18.609 Organizational Behavior and Human Resource Management (3)
- 42.514 Statistical Methods (3)
- 49.530 Health Fitness Leadership Workshop (1)
- 49.540 Health Communication (3)
- 49.610 Applied Human Physiology and Testing I (3)
- 49.615 Applied Human Physiology and Testing II (3)
- 49.618 Strategic Planning in Health Promotion (3)
- 49.640 Nutrition for Health Fitness (3)
- 49.790 Critical Issues in Health Fitness Management (3)
- 49.791 Research Methodology in Health Fitness (3)
- 49.792 In-Service Training in Health Fitness Management (3)
- or
- 49.797 Master's Thesis Seminar in Health Fitness Management (3)
- 54.652 Building Effective Work Teams (3)
- 57.570 Behavioral Medicine (3)
- 64.512 Computer Applications in Health and Fitness (2)

Special Opportunities and Facilities

The branches, agencies, and offices of the federal government and the many centers and organizations dealing with health, education, business, and physical fitness provide numerous internship and cooperative-education opportunities for students in health fitness programs. Within minutes of the campus are: the Department of Health and Human Services, the National Institutes of Health, the National Institute of Aging, the President's Council on Physical Fitness and Sports, and the National Library of Medicine.

The degree programs in health promotion and health fitness management are an integral part of American University's National Center for Health Fitness. Students in these programs share many of the center's resources and facilities. These include a human performance laboratory with state-of-the-art diagnostic equipment for assessment of cardiovascular fitness and pulmonary function; a physical fitness center fully equipped to accommodate all forms of human conditioning; a body composition laboratory with modern hydrostatic weighing facilities; a recording studio for production of health/fitness promotion materials and performance evaluations; and computer communication systems.

History

Chair Allan J. Lichtman

Full-Time Faculty

Professor Emeritus/a D. Gondos, J. Joughin,
C.C. McLaughlin

Professor R.L. Beisner, R.D. Breitman, R.H. Brown,
M. Kazin, A.M. Kraut, A.J. Lichtman

Distinguished Professor B. Reagon

Research Professor C. Beveridge

Associate Professor V. French, I. Klein, J.A. Malloy,
T. Murphy, P.S. Nadell, P. Kuznick

Assistant Professor D. Cohen, V. Schwartz, E. Findlay,
K. Wulf

Landmarks Assistant Professor K. Ott

Distinguished Historian in Residence A. Nelson

All individuals, institutions and societies continuously confront old and new problems. Since history involves the study of continuity and change in specific and comparative contexts, an understanding of history and its methods is fundamental to a rational and empathetic approach to life.

The Department of History at American University recognizes the intrinsic connection among research, teaching and learning. Recognized for expanding the frontiers of knowledge, the department faculty guide students toward the most promising methods and areas for their work and help them master essential knowledge, skills, and perspectives.

History department programs emphasize close contact between students and faculty. The undergraduate program features seminars, discussion groups and other forms of interactive learning. The two-semester Major Seminar requirement provides a capstone for research and writing skills that culminates in a substantial research paper.

With resources such as the National Archives and the Library of Congress, the Washington, D.C. area comprises the richest base for archival sources and published works anywhere in the United States. Internships are available at history-related organizations and museums such as the National Museum of American History and the U.S. Holocaust Memorial Museum.

In addition to preparing students for graduate or law school, the Department of History's emphasis on research, writing, and intellectual problem-solving prepares its students for business, government, public-interest, journalism and many other professions.

B.A. in History

Admission to the Program

Formal admission to the major requires departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 39 credit hours with grades of C or better including at least 15 credit hours at the 300 level or above.

The department recommends that before enrolling in a course at the 300 level or above, students should complete a suitable introductory course, or attain equivalent knowledge.

Advanced Placement

Prospective history majors may qualify for 3 advanced placement credits toward the major in both American and European history (for a total of 6 credits), provided the appropriate AP examination grade is a 4 or 5. Students cannot receive AP credit towards the major if they also take the comparable survey courses in either American history (29.205 and 29.206) or European history (29.110).

Students may receive 6 credit hours for each AP examination (12 credit hours total) toward the 120 credit hour university requirement.

Course Requirements

- 29.480 Major Seminar I (3)
- 29.481 Major Seminar II (3)
- One course in ancient or medieval history
- One course in Asian, East European, modern Middle Eastern, or Russian history
- One course in African, African-American, or Latin American history
- One course in Western European or British history at the 300 level or above
- One course in U.S. history at the 300 level or above
- Additional courses to make a total of 39 credit hours in history (which may include 34.205 Ancient and Medieval Jewish Civilization). At least 20 of the 39 credits must be taken at American University; at least 15 of the 39 must be at the 300-level or above.

Special Opportunities

Dorothy Ditter Gondos Award; Janet Oppenheim History Essay Prize; internships

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill requirements for University Honors in History, students may enroll in 500-level seminars, or in University Honors Colloquia taught by history faculty members, or may arrange an Honors supplement to a regular course, or an Honors independent study in history. All students must complete a two-semester sequence in the major seminar, as a "capstone" experience. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in History

Requirements

- One course in Western European or British history at the 300 level or above
- One course in U.S. history at the 300 level or above
- One course in an area other than Western European, British or U.S. history
- Four more courses in history, including at least two at the 300 level or above. The department requires that all 300-level courses be taken at American University.

At least 12 of the 21 credit hours in history must be taken at American University.

Combined B.A. and M.A. in History

The program enables students to complete both the B.A. and M.A. in History in five years.

Admission to the Program

Students will be admitted formally to M.A. status only if they have completed all requirements for the B.A. in History with strong grades (3.00 cumulative grade point average on a 4.00 scale and a 3.20 in history courses). Students should apply for admission to the program in their junior year. Those students moving to M.A. standing will be exempt from the usual Graduate Record Examination requirement.

Requirements

- All requirements for the B.A. in History
- All requirements for the M.A. in History

Students may apply 6 credit hours of course work in history to satisfy the requirements of both degrees.

M.A. in History

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (Verbal, Quantitative, and Analytic) and must have made a substantial beginning in one tool of research. Admission is based on academic record, test scores, letters of recommendation from two professors with whom work was taken recently, and favorable judgment by the department graduate committee and chair.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- One of the following as tool of research: a relevant foreign language, quantitative methods, statistics, computer science, oral history, or a methodology approved by the graduate committee of the Department of History
- One comprehensive examination
- Standard (nonthesis) option: Two substantial research papers with grades of B or better, one in 29.751/752 Research Seminar and one in 29.500 Studies in History
- Thesis option: a satisfactory thesis, completed through 6 credit hours of 29.797 Master's Thesis Seminar with grades of B or better

Course Requirements

- 29.500 Studies in History (3) with a grade of B or better
New graduate students are expected to take 29.500 in their first year of study.
- Two colloquia from the following with grades of B or better:
29.720 Colloquium in Modern European History since 1789 I (3)
29.721 Colloquium in Modern European History since 1789 II (3)
29.727 Colloquium in United States History I: to 1865 (3)
29.728 Colloquium in United States History II: since 1865 (3)
or approved substitute for one of the above colloquia
- 29.744 The Historian's Craft (3) (taken in the student's first semester of course work)
- Standard (nonthesis) option:
Three credit hours from the following:
29.751 Research Seminar in European History (3)
29.752 Research Seminar in United States History (3)
or approved substitute
- Thesis option:
29.797 Master's Thesis Seminar (6)
- Courses selected to fulfill either (1) a single-field program in United States or modern European history, or (2) a two-field program with a major field (18 credit hours) and a minor field (12 credit hours)

Note: No more than 50 percent of course work may be done in 300/600 level courses.

Special Opportunities

Internships at the National Archives, U.S. government agencies, and local historical societies.

Ph.D. in History

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants normally have completed an M.A. in History or a related field, have earned a satisfactory score on the Graduate Record Exam (Verbal, Quantitative, and Analytic), and have made a substantial beginning in one tool of research. Admission is based on academic record, letters of recommendation from two professors with whom work was taken recently, a sample of recent written work of substantial length (M.A. thesis, research paper, or interpretative essay) and favorable judgment by the department's graduate committee and department chair.

Degree and Major Requirements

- A total of 72 (including 30 for the M.A.) credit hours of approved graduate work
- Two of the following as tools of research: relevant foreign languages, quantitative methods, statistics, computer science,

oral history, or a methodology approved by the graduate committee of the Department of History

- Comprehensive examinations in four fields: Comprehensive examinations are offered in the areas of ancient history, United States history, modern European history, British history, Latin American history, modern Asian history, Russian history, and diplomatic history.

One field must be a historical field outside the student's main area of concentration, a comparative or multidisciplinary field, or a field in another discipline.

- Dissertation and oral defense (Dissertation work is not usually available in ancient, Russian, Asian or Latin American history.)

Course Requirements

Specific course requirements depend on whether students received their M.A. in History from American University. For more information, consult the Department of History.

- 29.744 The Historian's Craft (3) (taken in the first semester of course work)
- 29.799 Doctoral Dissertation Seminar (12-24)

Special Opportunities

Internships at the National Archives, U.S. government agencies, and local historical societies.

Jewish Studies

Director Pamela S. Nadell

Faculty from other schools and departments of the university also teach in the program.

The program in Jewish Studies recognizes that Jews and Judaism constitute a distinct yet integral component of the heritage of Western civilization. Jewish Studies courses, therefore, analyze the civilization of the Jews and its various cultural and religious expressions from the patriarchal period to the present.

Since Jewish Studies embraces the total experience of the Jewish people, its courses span the spectrum of the arts, humanities, and the social sciences. Moreover, since dynamic contact with many other religions and cultures influenced the development of Jewish civilization, Jewish Studies courses view Jews and Judaism within the broader context of these dominant societies. Courses in Jewish Studies enrich one's understanding of American and world Jewries. The majors and minors in Jewish Studies prepare students for leadership within and service to the Jewish community, and for a greater understanding of our pluralistic society.

Morris Gewirz Series in Jewish Thought

Established in 1975 through an endowment grant from the family of the late Morris Gewirz, noted Washington Jewish philanthropist, in memory of his commitment to Jewish education. It includes a two-semester survey of the development

of Jewish civilization and specialized studies such as modern Jewish philosophy.

Dr. Everett and Marian Gordon Studies in Judaism's Interfaith Dimensions

Established in 1976 through an endowment grant from noted Washington orthopaedic surgeon Dr. Everett Gordon and his wife Marian. Provision is made for courses and lectures which uncover the common roots of Western religion and compare Judaism with Christianity and Islam.

Dr. Everett and Marian Gordon Scholarship Awards in Jewish Studies

Also established in 1976 through the endowment grant from Dr. Everett Gordon and his wife Marian. Funding is provided for awards for and printing of outstanding senior theses in Jewish Studies and for work and other scholarships for classroom performance by students in courses in Jewish Studies, with preference given to students without previous background in Jewish Studies.

Jerrold and Jane Goodman Scholarships

Established in 1979 through an annual grant from Yablick Charities, Inc. Scholarships are awarded annually to outstanding students in Jewish Studies.

Jewish Chautauqua Society Lectureships

The Resident Lectureship Committee of the Jewish Chautauqua Society (under the auspices of the National Federation of Temple Brotherhoods) endows two courses each year in the Jewish Studies Program.

Special Opportunities

- Since Washington, D.C. is a center of Jewish organizational life, internships with local Jewish organizations devoted to community relations, religious activities, Israel, social welfare, etc. are offered for credit.
- A double major in Jewish Studies correlated with a major in another department or school of the university.
- Jewish studies minor for majors in the School of Education leading to a certificate for teaching in Jewish schools.
- Preparation for careers in Jewish communal service.

B.A. in Jewish Studies

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and the approval of the director of the program.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A minimum of 39 credit hours in Jewish Studies, including a 6-credit hour senior thesis

Course Requirements

- 29.245 Modern Jewish Civilization (3)
- 34.205 Ancient and Medieval Jewish Civilization 2:2 (3)
- 34.481 Senior Thesis in Jewish Studies I (3)
- 34.482 Senior Thesis in Jewish Studies II (3)
- 36.216 Hebrew, Intermediate Modern I (3)

- 36.217 Hebrew, Intermediate Modern II (3) or equivalent proficiency in Hebrew as approved by the Jewish Studies Program faculty.

Note: 36.116 Hebrew, Elementary Modern I (3) and 36.117 Hebrew, Elementary Modern II (3) (or equivalent) are prerequisites for the language requirement but do not count toward the major.

- One course in Jewish literature
 - One course in Jewish thought
 - One course in contemporary Jewish life
 - Twelve additional credit hours in Jewish Studies
- Eighteen of the total 39 hours must be at the 300 level or above. Some courses, with the approval of the program director, may be related courses in other units of the university.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Jewish Studies

- A minimum of 18 credit hours in Jewish Studies, with a grade of C or better; 9 of the 18 hours must be at the 300 level or above.

Course Requirements

- 29.245 Modern Jewish Civilization (3)
- 34.205 Ancient and Medieval Jewish Civilization 2:2 (3)
- One course in Jewish literature
- One course in Jewish thought
- One course in contemporary Jewish life
- At least one additional course in Jewish Studies

Language and Foreign Studies

Chair Naomi S. Baron

Full-Time Faculty

Professor Emeritus/a E.I. Burkart, G.S. Burkart, V. Medish, H. Mueller, H. Noel

Professor N.S. Baron, J. Child, P.R. Côté, J. Schillinger, B.F. Steinbrucker

Associate Professor Emeritus/a M.J. Betts, V.Z. Borkovec, M. Charbonneau, J. Goldin, M.A.G. Hood, H. Pineda, O. Salazar, Z. Wythe

Associate Professor F. Graziano, N. Harris, M. Nishimura, A. Oliver, D. Rodamar, O. Rojer, J. Wisman

Assistant Professor Emerita E. Oktay

Assistant Professor S. Eisen, C. Hernandez, A. Israeli, A. Partnoy, D. Shepherd, T. Waldspurger

Instructor J. Ata, M. Darcis, S. Luckam, T. Mast

In an increasingly complex world that grows smaller every day, the study of foreign languages, literature, and cultures is of vital importance. Learning the ways other nations live and think furthers understanding among peoples and cultures. The Department of Language and Foreign Studies (LFS) offers extensive study in French, German, Russian, and Spanish foreign language and culture, as well as two jointly-administered programs: one in area studies and language with the School of International Service and a foreign language and communication media program with the School of Communication. In addition, language courses in Arabic, Chinese, Hebrew, Italian, and Japanese are usually offered each academic year, and Hindi is offered every other year. Czech is offered in Prague through the World Capitals Program.

The department also offers certificate and degree programs in TESOL (Teaching English to Speakers of Other Languages). Opportunities for teaching English either in the United States or abroad are abundant. Many students combine a background in TESOL with another major.

Programs in language and foreign studies meet the needs of both departmental majors and other students in the university. Many undergraduates choose to minor in a language area or to complete a translation certificate. Internships and cooperative education programs are available both locally and internationally for foreign language programs and TESOL. Students can also enhance their language skills through study in the World Capitals Program.

Many areas of business, industry, and government service consider a language background a career must. Recent graduates of the department have been employed in a variety of organizations and fields including the Department of State, Library of Congress, National Security Agency, Voice of America, and National Academy of Sciences, as well as international import and export firms, public and private schools and colleges, and research and development firms.

UNDERGRADUATE PROGRAMS

Language Program Courses

First Year 100-Level Elementary Courses Emphasis on mastering structure for oral and written communication, basics of phonology and morphology, situational approach, perfection of audiolingual skills, and development of good pronunciation and speech patterns. Three to five academic hours of class instruction per week supplemented by individual language laboratory work. A "native" speaker of a foreign language cannot enroll in or earn credit toward graduation in a 100-level course.

Second Year 200-Level Intermediate Courses Emphasis on cultural patterns and contrasts between cultures, refinement of basic language skills, study of more complex grammatical structures, introduction of syntax, and expansion of vocabulary in a cultural context. Intensive and extensive reading, controlled writing projects, transition from manipulation of patterns to development of communicative skills. Appropriate use of audiovisuals. Three to five academic hours of class instruction per week supplemented by individual language laboratory work. A "native" speaker of a foreign language cannot enroll in or earn credit toward graduation in a 200-level course.

Third Year 300-Level Non-topics Courses Emphasis on style and style level. Expansion of vocabulary through extensive reading of literary excerpts, current newspapers, and magazines, assisted by frequent use of audiovisual aids. Perfection of oral skills, review of grammatical structures, creative use of language, and study of semantic problems, idioms, clichés, and figurative speech. Three academic hours of class instruction per week. A "native" speaker of a foreign language cannot enroll in or earn credit toward graduation in a 300-level non-topics course.

300-, 400- and 500-Level Topics Courses Selected topics courses taught in the foreign language. Designed for both majors and nonmajors. May be repeated for credit provided different subjects are covered.

300- and 400-Level Civilization Courses Survey of a foreign civilization with emphasis on the historical development of literature. Topical lectures. Designed for both majors and nonmajors.

Note: A "native" speaker of a foreign language shall be defined as a person whose pre-college level instruction was conducted principally in that language. Students who have significant knowledge of a foreign language gained outside of pre-college instruction may also be considered by LFS to be "native" speakers, but may have valid reasons for studying the language at the 300-level or lower. Requests for such consideration will be evaluated on a case-by-case basis, and should be directed to the chair of the Department of Language and Foreign Studies.

B.A. in French, German, Russian, or Spanish Studies

Admission to the Program

Students must be approved by the department for formal admission to the major. Language course work may be waived if high school or other preparation warrants it. Placement will be made in consultation with a departmental adviser.

Majors

French, German, Russian, or Spanish Studies

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- French, German or Spanish: A total of 39 credit hours with grades of C or better. Prerequisite: completion of intermediate language level.

Russian: A total of 36 credit hours with grades of C or better. Prerequisite: completion of intermediate language level.

- One of the following field concentrations:

Twelve credit hours in a second foreign language at any level
Twelve credit hours in area studies in the major field at the 300 level or above

Teacher education leading to certification to teach a foreign language (French, German, or Spanish) at the secondary level
An approved minor related to the major field; for example, another language, business administration, communication, economics, political science, history, sociology, literature, anthropology, or international studies

Course Requirements

French (39 credit hours)

- 37.322 Advanced French I (3) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.323 Advanced French II (3) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.324 Civilisation Française I (3)
- 37.325 Civilisation Française II (3)
- Three credit hours of linguistics course work from the following:
03.254 Language and Culture (3)
38.253 Language and Mind (3)
or a higher-level linguistics course as approved by adviser
- A minimum of 6 credit hours in 37.5xx courses
- Remaining credit hours at the 300-level or above

German (39 credit hours)

- 37.332 German Conversation and Composition I (3) (may be replaced by other 300- or 400-level courses if warranted by language proficiency)
- 37.333 German Conversation and Composition II (3) (may be replaced by other 300- or 400- level courses if warranted by language proficiency)
- 37.438 German Civilization I (3)
- 37.439 German Civilization II (3)
- Three credit hours of linguistics course work from the following:
03.254 Language and Culture (3)
38.253 Language and Mind (3)
or a higher-level linguistics course as approved by adviser
- Remaining credit hours chosen from 300-400-level courses, independent study projects, internships, and topics courses in German studies

Russian (36 credit hours)

- 37.342 Russian Conversation and Composition I (3)
- 37.343 Russian Conversation and Composition II (3)
- Twenty-one credit hours from the following:
37.441 Russian Media and Political Translation (3)
400–500-level Russian literature, topics, or linguistics courses
37.390 Independent Reading Course in Language and Foreign Studies (1–6) or
37.490 Independent Study Project in Language and Foreign Studies (1–6)
- Three credit hours of linguistics course work from the following:
03.254 Language and Culture (3)
38.253 Language and Mind (3)
or a higher-level linguistics course as approved by adviser
- Additional courses to fulfill credit hour requirements selected in consultation with adviser.

Spanish (39 credit hours)

- 37.352 Spanish Conversation and Composition I (3) (may be replaced by other 300- or 500-level course if warranted by language proficiency)
- 37.353 Spanish Conversation and Composition II (3) (may be replaced by other 300- or 500-level course if warranted by language proficiency)
- 37.357 Introduction to Latin American Literature (3)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)
- 37.491 Internship: Spanish (2–6)
- Three credit hours of linguistics course work from the following:
03.254 Language and Culture (3)
38.253 Language and Mind (3)
or a higher-level linguistics course as approved by adviser
- Remaining credit hours chosen from Spanish topics, colloquium, and literature courses

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in French, German, Japanese, Russian, or Spanish Language

Requirements

- Twenty-four credit hours of courses taught in the foreign language through LFS, of which 12 credit hours must be at the 300 level or above; for Japanese, 6 credits must be at the 300 level or above

Minor in Russian Studies

Requirements

- 37.200 Russia and the United States 3:2 (3)
- Fifteen credit hours in Russian studies selected from course offerings in at least three different teaching units. Nine of these 15 credit hours must be at the 300 level or above.

B.A. in Foreign Language and Communication Media

Students are admitted to either the Department of Language and Foreign Studies or the School of Communication.

Program tracks are: French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media. Refer to the Interdisciplinary Programs chapter for information on major and course requirements.

B.A. in Language and Area Studies

Offered jointly by the Department of Language and Foreign Studies of the College of Arts and Sciences (CAS) and the School of International Service (SIS). Students may major in French/Europe, German/Europe, Russian/Area Studies, or Spanish/Latin America area studies. Refer to the Interdisciplinary Programs chapter for admission, degree, and course requirement for this program.

Minor in Language and Area Studies

Language and Area Studies minors are available in French/Europe, German/Europe, Russian/Area Studies, Spanish/Latin America, or Japanese/Asia area studies. Refer to the Interdisciplinary Programs chapter for course requirements.

Undergraduate Certificate in Translation

Students receive an Undergraduate Certificate in Translation in French, German, Russian, or Spanish. The emphasis of this program is on translation into English.

Admission to the Program

Open to all students who have completed the 300-level Conversation and Composition II language course (or 37.323 Advanced French II) or equivalent.

Course Requirements

- Fifteen credit hours at the 300-level or above of which at least 12 must be taken in the Department of Language and Foreign Studies. At least one course must be at the 500-level.
- The remaining 3 credit hours may be a writing-intensive course chosen in another unit in consultation with the language adviser.
- Competency examination

Combined Bachelor's Degree and M.A. in TESOL

This program enables qualified students to earn both an undergraduate degree (in any field) and an M.A. in TESOL (Teaching English to Speakers of Other Languages). The combined program can be completed with four years of undergraduate study and 12 months of additional study (fall and spring semesters plus the Summer TESOL Institute). The program offers students an opportunity to gain both the theoretical background and practical skills necessary to teach English abroad or to adults in the United States.

Note: This program is not designed for K-12 ESL Certification

Admission to the Program

The standards for admission as defined by the relevant undergraduate teaching unit's requirements must first be satisfied. Undergraduates should apply for admission to the combined program by the end of the junior year.

Undergraduates whose overall grade point average is 3.00 or higher will be considered for the combined program. Applications must be accompanied by two letters of recommendation and a statement of purpose. Graduate Record Examination (GRE) scores are not required for admission to the combined program.

Students should discuss their interest in the program with the TESOL M.A. director before submitting a formal application.

Requirements

- All requirements for a B.A. or B.S. (in any major) at American University
- All requirements for the M.A. in TESOL

Students may use up to 6 credit hours of course work at the 500-level or above from the TESOL program to satisfy the requirements for both degrees. These courses may represent either undergraduate major requirements or electives.

GRADUATE PROGRAMS

Master's programs in Language and Foreign Studies include the M.A. in French Studies, the M.A. in Russian Studies, the M.A. in Spanish: Latin American Studies, and the M.A. in TESOL (Teaching English to Speakers of Other Languages). All four programs require 33 credit hours, offer both thesis and non-thesis options, and include possibilities for doing co-ops or internships. During the fall semester, incoming students from all programs attend a series of orientation and methodology workshops to prepare them for graduate study in the department.

Students in the M.A. programs in French Studies, Russian Studies, and Spanish: Latin American Studies can complete translation certificates as part of their degree requirements or earn credits towards a TESOL certificate. Each of the language M.A. programs offers opportunities for interdisciplinary work (drawing upon courses from across the university), training in foreign language pedagogy, or study abroad.

M.A. in French Studies

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should be proficient in French, familiar with the culture, and normally hold a B.A. in French. Both part-time and full-time students are welcome in the program. Applicants are required to submit a sample of written work in French as part of their formal application to the program.

Degree Requirements

- A total of 33 credits of approved graduate work, of which at least 18 must be in courses taken in French and taken in the Department of Language and Foreign Studies (LFS). Course work includes 21 credit hours of core requirements and 12 credit hours in a field of concentration.
- Thesis option: Students complete 3 credits of 37.797 Master's Thesis Seminar in lieu of one literature course.
Non-thesis option: Students complete all courses in the core, including two literature courses with research components with a grade of B or better.
- Assessment of core: An oral and a written comprehensive examination, in French, based on the core courses and a set of general questions distributed to students at the beginning of their program. Comprehensive examinations are given twice a year, towards the end of each semester.
- Assessment of field of concentration: An oral presentation of a portfolio compiled by the student in consultation with an adviser.

Course Requirements

Core Courses (21 credits)

- 37.520 Style et Syntaxe du Français (3)
- 37.702 Seminar in French Studies (3)
- Three French literature courses (9 credit hours) at the 500, 600, or 700 level in LFS
- One course (3 credit hours) in French culture or civilization at the 500 or 600 level in LFS

- Elective in Language and Foreign Studies (3)

Field of Concentration (12 credits)

- Students construct a field of concentration, in consultation with an adviser, in one of the following areas:

Related Studies (e.g., economics, history, international studies, communication, public affairs, business)

Literature

Language Teaching

TESOL (Teaching English to Speakers of Other Languages)

Translation

Note: Students electing a concentration in translation can complete a Graduate Certificate in French Translation.

Special Opportunities

Study abroad opportunities are available. Participants may earn up to 9 units of approved graduate credit abroad. These credits can be applied either to the core or the field of concentration (or both), as appropriate and as approved by an adviser.

Co-ops and internships are encouraged and are normally credited within the field of concentration. They are usually taken pass/fail and can be done either locally or abroad. A maximum of 3 credits of co-op or internship can be applied to the degree.

M.A. in Russian Studies

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should be proficient in Russian, familiar with the culture, and normally hold a B.A. in Russian. Both part-time and full-time students are welcome in the program. Applicants are required to submit a sample of written work in Russian as part of their formal application to the program.

Degree Requirements

- A total of 33 credits of approved graduate work, of which at least 21 must be taken in the Department of Language and Foreign Studies at the 500 level or above. Course work includes 21 credit hours of core requirements and 12 credit hours in a field of concentration.
- Thesis option: Students electing a concentration in Russian Studies, Russian Literature, or Russian Language complete 6 credits of 37.797 Master's Thesis Seminar as part of their concentration.
Non-thesis option: 37.703 and 37.704 must be completed with grades of B or better.
- Assessment of core: Two written comprehensive examinations, in Russian, covering the fields of the core courses. An oral interview (in Russian) follows the written comprehensives. Comprehensive examinations are given twice a year, towards the end of each semester.
- Assessment of field of concentration: An oral presentation of a portfolio compiled by the student in consultation with an adviser.

Course Requirements

Core Courses (21 credits)

- 37.546 Advanced Grammar and Composition 1 (3)
- 37.703 Seminar in Russian Literature (3)
- 37.704 Seminar in Russian Studies (3)
- One translation course from the following:
37.641 Advanced Russian Media and Political Translation
37.643 Russian Business Translation
- One literature or Russian studies course from the following:
37.543 Russian Classics
37.548 Topics in Russian Studies
- Two electives in Language and Foreign Studies

Field of Concentration (12 credits)

- Students construct a field of concentration, in consultation with an adviser, in one of the following areas:
Russian Studies, Russian Literature, or Russian Language (thesis option only)
Related Studies (e.g., economics, history, international studies, communication, public affairs)
International Business
Language Teaching
TESOL (Teaching English to Speakers of Other Languages)
Translation

Note: Students electing a concentration in translation can complete a Graduate Certificate in Russian Translation.

Special Opportunities

Study abroad opportunities are available. Participants may earn up to 9 units of approved graduate credit abroad. These credits can be applied either to the core or the field of concentration (or both), as appropriate and as approved by an adviser.

Co-ops and internships are encouraged and are normally credited within the field of concentration. They are usually taken pass/fail and can be done either locally or abroad. A maximum of 3 credits of co-op or internship may be applied to degree requirements.

M.A. in Spanish: Latin American Studies

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should be proficient in Spanish, familiar with the culture, and normally hold a B.A. in Spanish. Both part-time and full-time students are welcome in the program. Applicants are required to submit a sample of written work in Spanish as part of their formal application to the program.

Degree Requirements

- A total of 33 credits of approved graduate work, of which at least 21 hours must be in courses taught in Spanish. Course work includes 21 credit hours of core requirements and 12 credit hours in a field of concentration.
- Thesis option: Students complete 6 credits of 37.797 Master's Thesis Seminar as part of their concentration.

Non-thesis option: Students complete two offerings of 37.705 or one offering of 37.705 plus a research project in any approved course within Spanish: Latin American Studies in LFS, with grades of B or better.

- Assessment of core: A written examination, in Spanish. The comprehensive examination is given twice a year, towards the end of each semester.
- Assessment of field of concentration: An oral presentation of a portfolio compiled by the student in consultation with an adviser.

Course Requirements

Core Courses (21 credits)

- 37.705 Seminar in Spanish and Latin American Studies (3)
- One course in Latin American literature and culture from the following:
37.554 Classics of Latin American Literature (3)
37.656 Spanish Topics (3) (topic emphasizing literature or culture)
37.705 Seminar in Spanish and Latin American Studies (3) (different topic from above; must emphasize literature or culture)
- One course in linguistics, language, or translation from the following:
37.656 Spanish Topics any language-related topic, e.g.:
Advanced Spanish Grammar and Composition (3)
Applied Spanish Linguistics (3)
37.658 Introduction to Spanish Translation (3)
37.661 Introduction to Spanish Linguistics (3)
- One course in Latin American history, politics, international relations, or economics from the following:
19.555 Political Economy of Latin America (3)
29.640 Latin American Studies (3)
33.577 International Relations of Latin America (3)
53.532 Political Institutions and Processes in Selected Regions (3) (Latin American topics)

or

Other approved course

- Two electives from Spanish: Latin American offerings in the Department of Language and Foreign Studies
- Elective (3)

Field of Concentration (12 credits)

- Students construct a field of concentration, in consultation with an adviser, in one of the following areas:
Related Studies (e.g., economics, history, international studies, communication, public affairs)
Literature and Culture
Language Teaching
TESOL (Teaching English to Speakers of Other Languages)
Linguistics, Language, and Translation

Note: The Graduate Certificate in Spanish Translation can be completed with the courses taken in LFS for the MA. Interested students are encouraged to elect the concentration in Linguistics, Language, and Translation.

Special Opportunities

Study abroad opportunities are available. Participants may earn up to 9 units of approved graduate credit abroad. These credits can be applied either to the core or the field of concentration (or both), as appropriate and as approved by an adviser.

Co-ops and internships are encouraged and are normally credited within the field of concentration. They are usually taken pass/fail and can be done either locally (through 37.691 Proyecto Amistad) or abroad. A maximum of 3 credits of co-op or internship can be applied to the degree.

M.A. in TESOL (Teaching English to Speakers of Other Languages)

Admission to the Program

Applicants to the master's program in TESOL are subject to the minimum university requirements for admission to graduate study. Further, a grade point average of 3.00 (on a 4.00 scale) in the undergraduate major and two letters of academic reference are required. It is recommended that native speakers of English have some background in at least one other language. International students are expected to demonstrate competence in English equivalent to a score of 600 or better on the Test of English as a Foreign Language (TOEFL). English instruction is available at the English Language Institute for students who meet all admissions requirements except for competence in English. Part-time as well as full-time student are welcome in the program.

Note: This program is not designed for K–12 ESL certification. K–12 public school certification in ESL is available through the M.A.T. concentration in English for Speakers of Other Languages (ESOL). For more information, see the School of Education programs.

Degree and Major Requirements

- At least 33 credit hours of approved TESOL course work: With approval of the TESOL M.A. director, 38.620 Practicum in ESL may be waived if the student has significant documented experience teaching English.
- Completion of a teaching portfolio compiled during course of study
- An oral comprehensive examination taken after completion of all required course work and the teaching portfolio, to facilitate final evaluation of student mastery and accomplishments in TESOL
- Thesis option: thesis and oral defense (see course requirements below)
- Nonthesis option: (see course requirements below)

Course Requirements

Core Courses (24 credit hours)

- One of the following:
03.537 Topics in Language and Culture (3)
03.637 Topics in Applied Anthropology:
 Anthropology of Education (3)
 38.527 Cultural Issues in the ESL/EFL Classroom (3)
- 38.500 Principles of Linguistics (3)
- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- 38.503 Structure of English (3)
- 38.504 Language Analysis (3)
- 38.523 Second Language Acquisition (3) *or*
38.522 Language Acquisition (3)
- 38.620 Practicum in ESL (3)

Electives (9 credit hours)

- Three courses as approved by the student's adviser from the following:
03.537 Topics in Language and Culture (3) (if not taken in core)
03.637 Topics in Applied Anthropology:
 Anthropology of Education (3) (if not taken in core)
38.522 Language Acquisition (3) (if not taken in core)
38.523 Second Language Acquisition (3) (if not taken in core)
38.524 Reading and Writing in the ESL/EFL Classroom (3)
38.525 Teaching English for Specific Purposes (3)
38.527 Cultural Issues in the ESL/EFL Classroom (3) (if not taken in core)
38.531 Language Teaching and Testing (3)
38.528 Bilingual Education (3)
38.554 Computer Applications for Language Teachers (3)
38.596 Selected Topics with permission of the student's adviser (3)
65.545 Global and Multicultural Education (3)
- Thesis option: completion of 38.797 Master's Thesis Seminar (6) in lieu of 6 hours of electives listed above
- Nonthesis option: completion of course requirements as described above

Certificate in TESOL (Teaching English to Speakers of Other Languages)

Admission to the Program

International students must demonstrate competence in English equivalent to a score of 600 or above in the Test of English as a Foreign Language (TOEFL).

Course Requirements

- 38.500 Principles of Linguistics (3)
- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- Two approved elective courses

Note: This program is not designed for K–12 ESL Certification

Graduate Certificate in Translation

Students receive a Graduate Certificate in Translation in French, Russian, or Spanish. The emphasis of this program is on translation into English.

Admission to the Program

Open to all students who have completed the 300-level Conversation and Composition II language course (or 37.323 Advanced French II) or equivalent.

Literature

Chair Jonathan Loesberg

Full-Time Faculty

Professor Emeritus/a P. Han, F. Kelly, E.L. Kessler, F. King, M. Patton, J.A. Roberts, F.E. Zaparka

Distinguished Professor B.T. Bennett

Professor J.J. Jorgens, C.R. Larson, J. Loesberg, A. Lustig, K.W. Moyer, K. Mussell, J.N. Radner, R. Rubenstein, M. Sklarew, H.S. Taylor, F. Turaj

Associate Professor Emeritus A.P. Bean, W.E. Stahr, S. Yamall

Associate Professor D.C. Payne, R. McCann, J.R. Solomon

Assistant Professor A. Beaufort, T.F. Cannon, Jr., M. Noble, D. Pike, R. Sha,

Instructor J. Auten, C. Bair Van Dam, R. Bourjailly, J.C. Hansbarger, A. Higgins, H. Karalis, L. Johnson, J. Papian, S. Pearlman, M. Riley,

Concerned with the study of literature, writing, and film, the Department of Literature offers courses that embrace many approaches to the rich heritage of written, oral, and cinematic tradition, as well as courses that challenge students to write creatively and professionally. In addition to taking courses, our students are encouraged to enroll in internships to sample careers that use the skills they are developing in the classroom; Washington affords a wide range of job opportunities (many involving writing or editing) in settings such as arts organizations, radio and television, government offices, public interest organizations, museums, schools, and community groups.

The department's faculty of scholars and writers staff three degree programs in literature: the B.A. and M.A. in Literature and the M.F.A. in Creative Writing. All three programs offer students the chance to study literature, film criticism and creative writing; all are small and flexible programs that bring students and faculty into close contact in small classes and informal gatherings and colloquiums. The M.A. program provides an overview of the literary history of our culture in addition to a series of seminars on theoretical topics in which students and faculty together consider what constitutes the discipline of literary criticism. The M.F.A. in Creative Writing program includes work in fiction, poetry, and film script; workshops with distinguished visiting writers; internships; and

Course Requirements

- Fifteen credit hours at the 500 level or above of which at least 12 must be taken in the Department of Language and Foreign Studies
- The remaining 3 credit hours may be a writing-intensive course chosen in another unit in consultation with the language adviser
- Competency examination

course work in literature and in the arts of translation and literary journalism. It also offers students opportunities to give public readings, to meet with editors and publishers, and to produce a nationally known literary magazine.

In addition, the department offers an interdisciplinary minor in Cinema Studies which combines course work in cinema, video criticism and history and takes advantage of the impressive film resources of the Washington area.

The Visiting Writers Series

Each semester, the department sponsors public readings by prominent poets, fiction writers, and editors. These visitors also conduct workshops for graduate and undergraduate students of creative writing. Visiting writers have recently included A.M. Homes, Toni Cade Bambara, Allan Gurganus, Grace Paley, Randall Kenan, Charles Baxter, Helen Elaine Lee, Michael Cunningham, Richard Rodriguez, Doris Betts, John Irving, and Yusef Komunyakaa. Distinguished Writers in Residence have included Pablo Medina, Brett Singer, Jean Valentine, and Alice McDermott.

B.A. in Literature

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 42 credit hours with grades of C or better. At least 21 of the 42 hours must be taken at the 300 level or above

Course Requirements

- 23.105 The Literary Imagination 1:1 (3) or 23.120 Interpreting Literature 1:1 (3)
 - Three survey courses from the following:
23.115 Remarkable Literary Journeys 2:1 (3)
23.150 Third World Literature 3:1 (3)
23.210 Survey of American Literature I (3)
23.211 Survey of American Literature II (3)
23.220 Survey of British Literature I (3)
23.221 Survey of British Literature II (3)
23.225 The African Writer 2:2 (3)
23.230 Major European Writers I (3)
23.231 Major European Writers II (3)
23.235 African-American Literature 2:2 (3)
- At least one of these must be 23.115, 23.210, 23.220, or 23.230. A student may not count both 23.115 and 23.230 in fulfilling this requirement.
- Four courses in literature written before 1900, of which at least two must be in literature written before 1800
 - One course in any of the following: creative writing, 23.215 Writers in Print/in Person 1:2, or a 300-level cinema course
 - 23.498 Senior Seminar on the Value of Literature (3)
 - Four other courses offered or approved by the Department of Literature

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill Honors requirements for University Honors in Literature, students may enroll in Literature Honors Colloquia with literary topics, or may arrange an Honors supplement to a regular course or an Honors independent study in Literature. All students complete a two-semester Honors sequence in Senior Seminar and Senior Honors Thesis. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Literature

Requirements

- 23.105 The Literary Imagination 1:1 (3) or 23.120 Interpreting Literature 1:1 (3)
 - One course selected from the following:
23.115 Remarkable Literary Journeys 2:1 (3)
23.210 Survey of American Literature I (3)
23.211 Survey of American Literature II (3)
23.220 Survey of British Literature I (3)
23.221 Survey of British Literature II (3)
23.230 Major European Writers I: An Introductory Survey (3)
23.231 Major European Writers II (3)
 - Twelve credit hours in literature (9 hours must be at the 300 level or above)
- Only one course in creative writing may be counted toward the minor.

Minor in Literature: Cinema Studies

Requirements

- 17.200 Writing for Mass Communication (3)
- 23.135 Critical Approach to the Cinema 1:1 (3)
- Four courses from the following:
23.375 Film and Literature (3)
23.376 National Cinema (3)
23.377 Popular Film Genres (3)
23.378 Major Filmmakers (3)
23.380 Independent Filmmakers (3)
23.402 Creative Writing: Film Script (3)
- Two courses from the following:
17.430 Basic Photography (3) (taken with 17.431)
17.431 Basic Visual Media Production (3) (taken with 17.430)
17.511 History of Documentary (3)
17.558 History of Motion Pictures I (3)
17.559 History of Motion Pictures II (3) (or another visual media course approved by adviser)

M.A. in Literature

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should have a grade point average of 3.00 (on a 4.00 scale) in undergraduate literature courses. The Graduate Record General Examination is recommended. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will also be considered, provided that substantial study of literature has been done. Two letters of recommendation and a sample of critical writing are required. Part-time as well as full-time students are welcome in the program.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- A written comprehensive examination based on a reading list prepared by the department, usually taken in the final semester of study
- Thesis option: a two-semester project involving independent research under faculty direction (3 credit hours, 23.690 Independent Study Project in Literature) and thesis writing (3 credit hours, 23.797 Master's Thesis Seminar)
- Course-intensive (nonthesis) option: 6 credit hours of course work, 3 of which must be in a graduate seminar (23.7xx or 23.5xx). Students electing this option must take at least five graduate seminars to fulfill their degree requirements.

Course Requirements

- At least four graduate seminars (23.7xx or 23.5xx), chosen from among those offered on a rotating basis by the department; graduate seminar credit will also be given for participation in Folger Institute seminars

- Twelve additional credit hours of graduate seminars, advanced literature courses (23.500 through 23.750), and independent reading courses or study projects
- With permission of the departmental adviser, a student may take up to 6 graduate credit hours outside the Department of Literature
- Six additional credit hours to fulfill the thesis or course-intensive option

M.F.A. in Creative Writing

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will be considered. Admission is based on samples of previous writing (30 pages of fiction or 15 pages of poetry), academic record, and two letters of recommendation.

Degree and Major Requirements

- A total of 48 credit hours of approved graduate work
- Advancement to candidacy is automatic on admission to the program, but subject to yearly review
- A book-length manuscript of fiction, poetry, or drama, to be approved by the creative writing faculty
- One oral examination on the candidate's manuscript: its merits, characteristics, and relations to the works of others

Mathematics and Statistics

Chair Virginia E. Stallings

Full-time Faculty

Professor Emeritus/a J. Blum, B.P. Korin, H. Rosenblatt, G. Quinn, S.H. Schot, J.H. Smith

Professor D.S. Crosby, N. Flounoy, M.W. Gray, R.A. Holzager, R.W. Jernigan, S. Parker

Research Professor N. Mantel

Associate Professor Emeritus E.B. McCue

Associate Professor A.M. Barron, S. Casey, I.L. Chang, L.J. Crone, A. Enayat, J. Hakim, J. Nolan, H. Sandler, V.E. Stallings

Assistant Professor Emerita C.T. Machlin

Assistant Professor M. Christman, O. Cordero-Brana, D. Kalman, G. Weinstein

Instructor K. Ambruso, M. Donahue, K. Foret, H. Hamdan, E. Kpamegan, P. Matthews

Mathematics may be studied as an intellectual discipline for its own sake or as a professional tool for application to the problems of other disciplines. Majors in mathematics receive firm grounding in the theory and techniques of algebra, analysis, and other fields as a basis for further work in pure or applied mathematics and for graduate studies. The major in

Course Requirements

- Twelve credit hours in writing workshops:
23.700 Advanced Fiction Workshop (3)
23.701 Advanced Poetry Workshop (3)
23.702 Creative Writing: Film Script (3)
Students may concentrate on one genre or work in several
- Twelve credit hours in literature courses selected from among the regular graduate level literature offerings of the department
- 23.705 Seminar on Translation (3)
- 23.710 Art of Literary Journalism (3)
- 23.691 Graduate Internship (6)
Possible internship sites include the Writer's Center in Bethesda, the Folger Shakespeare Library, the Library of Congress, the Writers-in-the-Schools programs, and affiliations with in-house and trade publishers.
- Six credit hours from the following:
Additional writing workshops, offered at American University or elsewhere
Additional courses in literature, cinema studies, or performing arts
With the approval of an adviser, courses in foreign languages, journalism, or in any other discipline which seems germane to the individual student's interest and consistent with the objectives of the program
- Six credit hours of 23.797 Master's Thesis Seminar

applied mathematics offers training in mathematical problem-solving techniques without emphasis on abstract theory. This program is not as firm a foundation for graduate work as the mathematics major, but is tailored to the student who will need to apply mathematical, statistical, and computer methods to practical problems.

Undergraduates majoring in mathematics may choose a variant of the standard curriculum, supplemented by courses in education and in psychology, to be certified as secondary teachers.

Statistics is concerned with the collection, organization, analysis, interpretation, and presentation of numerical data. The science of statistics is a broad and challenging field. Its breadth can be seen in the way its ideas and techniques have found application in almost every field of study. Statistics has contributed organizational and analytical techniques that provide new insights in fields that range from the physical and life sciences to business, law, history, literature, and the social sciences.

Undergraduate students majoring in statistics have two tracks available. Those who intend to continue with graduate work in statistics or those with an interest in the theory of statistical methods should follow the sequence for mathematical statistics, which requires a strong background in mathematics. Students wishing an emphasis in the use of statistical techniques should follow the sequence for applied statistics.

This track is especially appropriate as a secondary emphasis for students who have a strong interest in a field of application.

The Department of Mathematics and Statistics combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C. location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for students with a firm grounding in the mathematical sciences.

Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department also offers a limited number of book scholarships to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the Financial Aid Office at (202) 885-6100.

B.S. in Applied Mathematics

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 57 credit hours with grades of C or better

Course Requirements

- 64.280 Introduction to Computer Science I (4)
- 64.281 Introduction to Computer Science II (3)
- 41.221 Calculus I (4)
- 41.222 Calculus II (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.321 Differential Equations (3)
- 41.501 Probability (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Partial Differential Equations (3)

- 41.560 Numerical Analysis: Basic Problems (3)
- 42.502 Introduction to Mathematical Statistics (3)
- Three additional mathematics electives, to be selected in consultation with the student's adviser

Related Courses

- 51.110 University Physics I 5:1 (4)
- 51.210 University Physics II 5:2 (4)

or

Alternative science courses approved by adviser

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.S. in Mathematics

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and departmental approval.

Tracks

Mathematics or Secondary Mathematics Teaching

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- Mathematics: A total of 52 credit hours with grades of C or better
- Secondary Mathematics Teaching: A total of 69 credit hours with grades of C or better

Course Requirements

Mathematics

- 64.280 Introduction to Computer Science I (4)
- 41.221 Calculus I (4)
- 41.222 Calculus II (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.322 Advanced Calculus (3)
- 41.512 Introduction to Modern Algebra I (3)

- 41.513 Introduction to Modern Algebra II (3)
- 41.520 Introduction to Analysis I (3)
- 41.521 Introduction to Analysis II (3)
- Three courses selected from the following:
 - 41.321 Differential Equations (3)
 - 41.501 Probability (3)
 - 41.505 Mathematical Logic (3)
 - 41.510 Geometry (3)
 - 41.515 Number Theory (3)
 - 41.540 Topology (3)
 - 41.550 Complex Variables for Applications (3)
 - 41.551 Partial Differential Equations (3)
 - 41.560 Numerical Analysis: Basic Problems (3)
 - 41.570 History of Mathematics (3)
 - 41.601 Harmonic Analysis (3)
 - 42.502 Introduction to Mathematical Statistics (3)
- Three courses in a field of application, to be selected in consultation with the adviser

Note: This requirement may be waived for students with more than one major in this department and for students obtaining secondary teaching certification in mathematics.

Secondary Mathematics Teaching

- 64.280 Introduction to Computer Science I (4)
- 41.221 Calculus I (4)
- 41.222 Calculus II (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.322 Advanced Calculus (3)
- 41.501 Probability (3)
- 41.512 Introduction to Modern Algebra I (3)
- 41.510 Geometry (3)
- 42.202 Basic Statistics (4)
- 42.502 Introduction to Mathematical Statistics (3)

Courses required for secondary teaching certification:

- 21.200 Schools and Society 4:2 (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1)
- 21.362 Classroom Management (3)
- 21.540 Methods and Materials in Secondary Education (3)
- 21.541 Foundations of Special Education for Exceptional Children (3) *or*
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- 21.371 Foundations of Reading Instruction (3) *or*
- 21.520 Reading, Writing, and Literature across the Curriculum (3)
- 21.599 Student Teaching (9)
- 41.585 Mathematics Education (3)
- All students are required to take the National Teacher Examination (core battery and specialty area) prior to graduation.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.S. in Statistics

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and departmental approval.

Tracks

Mathematical Statistics or Applied Statistics

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- Mathematical Statistics: a total of 47 credit hours with grades of C or better
- Applied Statistics: a total of 54 or 55 credit hours with grades of C or better

Course Requirements

Mathematical Statistics

- 41.221 Calculus I (4)
- 41.222 Calculus II (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics (4)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
- 64.280 Introduction to Computer Science I (4)
- Four additional courses at or above .300 in the department, of which two must have the prefix 42. (42.514 cannot be used and 42.300 and 42.302 cannot both be used) as approved by an adviser. The course 64.281 may substitute for a course with a prefix of 41.

Applied Statistics

- 41.211 Applied Calculus I (4) *and*
- 41.212 Applied Calculus II (3)
- or*
- 41.221 Calculus I (4) *and*
- 41.222 Calculus II (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics (4)
- 42.300 Business and Economic Statistics (3) *or*
- 42.302 Intermediate Statistics (3)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
- 64.280 Introduction to Computer Science I (4)
- Two additional courses selected from the department as approved by a student's adviser
- At least five additional courses in a related field, as approved by an adviser. The courses may be selected from more than one teaching unit, but must have a common theme or subject area in which statistics are applied.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Mathematics

Requirements

- 41.310 Linear Algebra (3)
- 41.221 Calculus I (4) *and*
- 41.222 Calculus II (4)
- or*
- 41.211 Applied Calculus I (4) *and*
- 41.212 Applied Calculus II (3)
- Three additional approved courses numbered 41.xxx, at least two of which must be at the 300 level or above

Minor in Quantitative Methods

Course Requirements

- 41.310 Linear Algebra (3)
- 64.280 Introduction to Computer Science I (4)
- 41.221 Calculus I (4) *and*
- 41.222 Calculus II (4)
- or*
- 41.211 Applied Calculus I (4) *and*
- 41.212 Applied Calculus II (3)

- Two courses in statistics numbered 42.3xx or above: Students may select only one of 42.300 Business and Economic Statistics, 42.302 Intermediate Statistics or 42.514 Statistical Methods for credit toward the minor.

Minor in Statistics

Course Requirements

- 42.202 Basic Statistics (4)
- 41.221 Calculus I (4) *or*
- 41.211 Applied Calculus I (4)
- Four courses in statistics (42.xxx) at the 300 level or above (41.501 Probability (3) may also be used as one of the four) Students may select only one of 42.300 Business and Economic Statistics, 42.302 Intermediate Statistics, or 42.514 Statistical Methods for credit toward the minor.

Undergraduate Certificate in Applied Statistics

Admission to the Program

Open to students with a high school diploma or Graduate Equivalency Diploma (GED)

Course Requirements

- 64.280 Introduction to Computer Science (4)
- 41.211 Applied Calculus I (4)
- 41.212 Applied Calculus II (3)
- 42.202 Basic Statistics (4)
- 42.300 Business and Economic Statistics (3)
- or*
- 42.514 Statistical Methods (3)
- or*
- 42.302 Intermediate Statistics (3)

Combined B.S. in Applied Mathematics and M.A. in Mathematics

Students receive both a B.S. in Applied Mathematics and an M.A. in Mathematics.

Requirements

- All requirements for the B.S. in Applied Mathematics
 - All requirements for the M.A. in Mathematics
- Students may apply 6 credit hours of approved course work to the requirements for both degrees.

Combined B.S. in Mathematics and M.A. in Mathematics

This five-year program enables students to earn both a B.S. in Mathematics and an M.A. in Mathematics.

Admission to Program

Undergraduate students should have a grade point average of 3.20 on a 4.00 scale in major courses. All students should apply by the end of the junior year. Applicants must have completed one of the following sequences by the end of the junior year:

41.512 and 41.513 Introduction of Modern Algebra I and II
or

41.520 and 41.521 Introduction to Analysis I and II

Requirements

- All requirements for the B.S. in Mathematics. Senior-year courses must include a one-year major course sequence acceptable towards a master's degree, but to count towards the B.S. only.
- All requirements for the M.A. in Mathematics. Students may apply 6 credit hours of approved course work to the requirements for both degrees.

Combined B.S. in Mathematics or Statistics and M.S. in Statistics

Students receive both a B.S. in Mathematics or Statistics and an M.S. in Statistics.

Admission to the Program

Undergraduate students should have a grade point average of 3.20 on a 4.00 scale in major courses. All students should apply by the end of the junior year. Applicants must have completed 41.501 Probability and 42.502 Introduction to Mathematical Statistics by the end of the junior year.

Requirements

- All requirements for the B.S. in Mathematics or Statistics (mathematical statistics track)
 - All requirements for the M.S. in Mathematics
- Students may apply 6 credit hours of approved course work to the requirements for both degrees.

Combined B.S. in Mathematics and M.S. in Computer Science

For a description of this program, see listing under Computer Science and Information Systems in this chapter.

M.A. in Mathematics

Admission to the Program

In addition to meeting the minimum university requirements for admission, applicants must have an undergraduate degree in mathematics or a related field. Students entering the M.A. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

Degree and Major Requirements

- A total of 30 credit hours of graduate course work including thesis or nonthesis option requirements
- Proficiency in Russian, German, French, or an approved computer language as a tool of research
- A written comprehensive examination in mathematics, 41.050

- Thesis option: 6 hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis.
Nonthesis option: 3 credit hours in 41.690 Independent Study Project in Mathematics (topic to be chosen in consultation with a faculty member) requiring an oral and written presentation of the research work and 3 credit hours in approved graduate-level independent research, seminar, or research course.

M.S. in Statistical Computing

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants will be expected to have adequate background in the mathematical sciences. Specifically, program prerequisites are 64.281 Introduction to Computer Science II and 64.282 Assembly Language Programming (or equivalents) and three semesters of calculus. In addition, previous work in statistics, probability, and matrix algebra is recommended.

Degree and Major Requirements

- Thirty-six credit hours of approved graduate work
Six hours may be waived for students who have taken 64.520 Algorithms and Data Structures and 64.521 Design and Organization of Programming Languages, or 42.530 Mathematical Statistics I and 42.531 Mathematical Statistics II, or their equivalents.
- Written comprehensive examination: 42.007 Statistical Computing
- Six credit hours to fulfill the research requirement

Course Requirements

- 64.520 Algorithms and Data Structures (3)
- 64.521 Design and Organization of Programming Languages (3)
- 41.560 Numerical Analysis: Basic Problems (3)
- 42.524 Data Analysis (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- One of the following:
42.515 Regression (3)
42.520 Applied Multivariate Analysis (3)
- One of the following:
42.584 Stochastic Processes (3)
42.522 Time-Series Analysis (3)
- Two courses selected from the following:
64.540 Computer Systems Organization and Programming (3)
64.568 Artificial Intelligence (3)
64.584 Computer Graphics (3)
- Research Requirement:
42.640 Statistical Computing (3)
42.690 Independent Study Project in Statistics (3-6)

M.S. in Statistics

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants will be expected to have an adequate background in the mathematical sciences. Students entering the M.S. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

Tracks

Mathematical Statistics or Applied Statistics

Degree and Major Requirements

- At least 30 credit hours of approved graduate work
- Proficiency in a tool of research chosen from: French, German, Russian, an approved computer language, or an approved analytical skill such as numerical, complex, or real analysis
- Written comprehensive examination (administered in two parts)
Mathematical Statistics track: 42.001 Statistical Theory and Probability
Applied Statistics track: 42.005 Statistical Theory and Applications
- Thesis option: 42.797 Master's Thesis Seminar in Statistics (6) and an oral defense of the thesis
Nonthesis option: At least 3 credit hours in 42.690 Independent Study Project in Statistics or 42.798 Statistical Research and Consulting, requiring a written presentation of the research work. Three hours in approved graduate-level independent research, seminars, or research, or topics courses.

Course Requirements

Mathematical Statistics

- 41.574 Theory of Probability (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- 42.584 Introduction to Stochastic Processes (3)
- 42.600 Advanced Mathematical Statistics (3)
- 42.601 Topics in Advanced Probability and Statistics (3)
- Thesis option: Two additional courses in mathematics or statistical theory
Nonthesis option: Three additional courses in mathematics or statistical theory
- Additional research hours of course work to fulfill the thesis or nonthesis option

Up to 12 credit hours may be taken as an independent research project.

Applied Statistics

- 41.501 Probability (3)
- 42.515 Regression (3)
- 42.524 Data Analysis (3)
- 42.525 Statistical Software (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)

- 42.584 Introduction to Stochastic Processes (3)
- One additional course in statistical methods and applications (including approved related courses given in other teaching units)
- Additional research hours of course work to fulfill the thesis or nonthesis option

Up to 12 credit hours may be taken as an independent research project.

M.S. in Statistics for Policy Analysis

Admission to Program

In addition to meeting the minimum university requirements for graduate study, applicants are expected to have completed a minimum of one year of calculus and one year of statistics.

Degree and Major Requirements

- At least 36 credit hours of approved graduate work
- Written comprehensive examination 42.006 Statistics for Policy Analysis
- Nonthesis option: 42.690 Independent Study Project in Statistics which requires a written presentation of the research work, and 3 additional hours of an approved internship or an approved advanced-level seminar or research course.

Course Requirements

- 42.514 Statistical Methods (3) (42.514 or equivalent is a prerequisite for all other statistics courses in the program)
- 42.515 Regression (3)
- 42.524 Data Analysis (3)
- 42.525 Statistical Software (3)
- 42.690 Independent Study Project in Statistics (3)
- 42.691 Internship in Statistics (3) (an advanced-level seminar or research course may be substituted based on professional experience)

Additional 18 credit hours from the following:

- At least two additional statistics and probability courses (42.xxx) at the 500 level or above. Recommended courses are:
42.502 Introduction to Mathematical Statistics (3)
42.510 Theory of Sampling I (3)
42.517 Special Topics in Statistical Methodology: Sampling (3)
42.516 Design of Experiments (3)
42.520 Applied Multivariate Analysis (3)
42.521 Analysis of Frequency (3)
42.522 Time Series Analysis (3)
- At least two policy analysis courses from the following, and approved by the students's adviser:
54.604 Public Program Evaluation (3)
54.606 Foundations of Policy Analysis (3)
54.607 Economics and Politics of Public Policy (3)
65.580 Social Policy Analysis (3)
65.680 Social Policy Research (3)

Ph.D. in Mathematics Education

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must hold a master's degree in either education or mathematics. Admission is based on academic record and two letters of recommendation.

Degree and Major Requirements

- At least 45 credit hours of approved graduate work in addition to credit earned for the master's degree
- Proficiency in two tools of research:
One tool must be statistics, satisfied by satisfactory completion (B or better) of the required statistics courses or by passing an examination given by the Department of Mathematics and Statistics.
The second tool may be French, German, Russian, Spanish, or an approved computer language.
- Four comprehensive examinations:
41.070 Mathematics for Mathematics Education (written)
41.071 Mathematics Education (oral)
41.072 Mathematics Education (written)
One additional comprehensive examination from those regularly given by the School of Education or the Departments of Psychology, Mathematics and Statistics, or Computer Science and Information Systems. Students who do not have a previous graduate degree in education must take one of these examinations in the School of Education. In special cases, dependent upon experience and interest, other fields may be approved.
- Dissertation directed by a full-time faculty member and an oral defense of the dissertation (minimum of 6 hours of 41.799 Doctoral Dissertation Seminar in Mathematics).

Course Requirements

- 41.512 Introduction to Modern Algebra I (3)
- 41.520 Introduction to Analysis (3)
- 41.513 Introduction to Modern Algebra II (3)
- 41.521 Introduction to Analysis II (3)
- 41.585 Mathematics Education (3)
- 41.685 Practicum in Mathematics Education (3)
- 41.790 Research Seminar in Mathematics Education (3)
Approved mathematics courses may be substituted for 41.512, 41.513, 41.520, and 41.521 if the student's previous work included these courses.
- 42.515 Regression (3) *and*
42.516 Design of Experiments (3)
or
41.501 Probability (3) *and*
42.502 Introduction to Mathematical Statistics (3)

Approved statistics courses may be substituted for 41.515, 42.516, 41.501, and 42.502 if the student's previous work included these courses. *Note:* 42.514 Statistical Methods will *not* be counted toward the program.

- Twelve additional hours of approved course work in mathematics, statistics, computer science, education, psychology, or other relevant fields

This course work might include:

For college teaching:

- 21.521 Foundations of Education (3)
- 21.583 Curriculum Construction and Program Design (3)
- 21.611 Formative Ideas of Contemporary Education (3)
- 21.612 Educational Equity (3)
- 21.615 Overview of Educational Systems (3)
- 21.620 Theories of Educational Psychology and Human Development (3)

For education administration:

- 65.642 Training Program Design (3)

Note: Students who have not had courses comparable to 21.620 must include this course in their programs.

Ph.D. in Statistics

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants who do not have an M.A. or M.S. in Statistics begin with 42.530 Mathematical Statistics I, 42.531 Mathematical Statistics II, 42.574 Theory of Probability and/or 42.584 Introduction to Stochastic Processes. Admission is based on academic record and two letters of recommendation.

Degree and Major Requirements

- A total of 72 credit hours of approved graduate work including a minimum of 6 credit hours of 42.799 Doctoral Dissertation Seminar in Statistics. Thirty hours may be transferred into the program by students who have a master's degree statistics.
- Proficiency in two tools of research chosen from: French, German, Russian, an approved computer language, or an approved analytical skill such as numerical, complex, or real analysis. The analytical skill requirement may be satisfied by previous course work.
- A qualifying examination taken before completion of 24 credit hours of course work in the doctoral program
- Four comprehensive examinations, two written and two oral
The fields for the written examinations are 42.003 Probability and Distribution Theory and 42.004 Statistical Inference. One oral examination is a defense of the dissertation proposal, and the other is a defense of the dissertation.
- A dissertation directed by a full-time faculty member and an oral defense of the dissertation

Course Requirements

- 41.674 Advanced Probability (3)
- 42.600 Advanced Mathematical Statistics (3)
- 42.601 Topics in Advanced Probability and Statistics (3)
(may be taken twice, topic must be different)
- 42.610 Statistical Inference: Estimation (3)
- 42.620 Multivariate Analysis I (3) *and*
42.621 Multivariate Analysis II (3)
or
42.670 Linear Estimation I (3) *and*
42.671 Linear Estimation II (3)
- 42.798 Statistical Research and Consulting (3) (may be repeated for credit, topic must be different)
- 42.799 Doctoral Dissertation Seminar in Statistics (1–12)

Graduate Certificate in Applied Statistics

Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

Course Requirements

- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- Three of the following:
42.510 Theory of Sampling I (3)
42.515 Regression (3)
42.516 Design of Experiments (3)
42.517 Special Topics in Statistical Methodology (3)
or
42.519 Nonparametric Statistics (3)

Performing Arts: Music, Theatre, Dance, and Arts Management

Chair Valerie Morris

Full-Time Faculty

Professor Emeritus/a C. Crowder, E.S. Hayes, V.E. Mason
J.L. McLain, G.C. Schuetzle

Professor A.R. Mandel, H. Mardirobian, N. Prevots,
J. Sapieyevski, E. Vrenios

Visiting Professor J.Wade

Associate Professor Emeritus/a K. Baker, B. Baranovic

Associate Professor G. Humphries Breeskin, C. Jennings,
C. Mendenhall, V. Morris

Assistant Professor K. Chandler, A. Donohue,

The Department of Performing Arts provides intensive professional training in each of its disciplines: music, theatre, music theatre, dance, and arts management.

The programs offer a unique blend of classroom work and performance experience. Each year a season of plays, musicals, opera, orchestra and choral concerts, and dance concerts augments classroom learning with actual experience. Similarly, the graduate Arts Management program provides hands-on experience through field studies and an internship with a local or national arts organization.

The Visiting Artists and Artists-in-Residence programs in the Department of Performing Arts provide students with opportunities to meet and work with well known professionals in each of the disciplines. Guest artists have included Twyla

Tharp, Nina Wiener, Jim May, and Erick Hawkins. For musicians, internationally acclaimed composer Jerzy Sapieyevski collaborates with the Physics Department in directing the AU Music Lab, which gives the students opportunities to experiment with new sound technology. The Washington Music Ensemble, in residence at the university, features faculty members Alan Mandel and Elizabeth Vrenios. In addition, graduate classes are held with famous musical performers such as Elizabeth Schwarzkopf and Leon Fleischer. Special opportunities for performance include participation in the department's musical theatre troupes Pizzazz and Creative Company. The companies have performed for inaugural events, corporate functions, and special galas. Theatrical guest artists have included Mabou Mines, Joshua Logan, Richard Schechner, Herb Edelman, and Cliff Fannin Baker.

The dynamic interaction of performance experience, theoretical and historical understanding, and exposure to well established professionals is designed to prepare the student for a professional or teaching career. The Washington, D.C. area is the home of many arts organizations, including the John F. Kennedy Center for the Performing Arts, the Washington Ballet, the Wolf Trap Farm Park for the Performing Arts, the National Symphony, and Arena Stage. In addition, Washington, D.C. hosts many international artists and performing arts groups. This environment provides an excellent climate for the nurturing of the creative spirit.

B.A. in Music

The music program is fully accredited by the National Association of Schools of Music.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A minimum of 54 credit hours with grades of C or better; 3 credits may be waived (see Course Requirements, below)

Course Requirements

- 67.120 Music Fundamentals (3) (may be waived for majors with equivalent music experience)
- 67.124 Harmony I (3)
- 67.125 Harmony II (3)
- 67.227 Musicianship I (3)
- 67.228 Musicianship II (3)
- 67.324 Form and Analysis (3)
- 67.325 Counterpoint (3)
- 67.322 Music History I (3)
- 67.323 Music History II (3)
- 67.445 Senior Capstone: Music (3)
- 68.122 Private Instrument or Vocal Study (2) (Four semesters for a total of 8 credits)
- Four semesters from the following:
 - 67.142 Concert Choir (1)
 - 67.143 University Singers (2)
 - 67.144 University Orchestra (1)
 - 67.545 Chamber Ensembles (1) (no more than two semesters)

Area of Concentration

- A minimum of 12 credit hours in an area of concentration. Students may select from the following or design an individual area of concentration. All area of concentration courses must be approved by the academic adviser.

Arts Management

- 11.300 Principles of Management (3)
- 14.240 Principles of Financial Accounting (3)
- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 67.570 Survey of Arts Management (3)

Composition

- 50.101 Fundamentals of Audio Technology (3)
- 50.310 Sound Synthesis
- 67.331 Music Technology I
- 67.332 Music Technology II
- 67.537 Analytical Studies

Senior full recital of original compositions

Note: Students choosing the composition concentration must enroll in 68.122 Private Instrument or Vocal Study: Composition (2) for six semesters and two additional semesters of applied music (68.xxx)

Performance

- 23.245 The Experience of Poetry 1:2 (3)
- 67.251 Fundamental of Acting I (3)

German, Italian or French language courses (or other language courses as approved by the student's adviser)

Senior full recital

Note: Students choosing the performance concentration must enroll in a n applied music (68.xxx) course each semester

Music History and Literature

- 29.100 Historians and the Living Past 2:1 (3)
- 29.235 The West in Crisis 2:2 (3) or other approved history (29.xxx) or anthropology (03.xxx) courses
- 67.491 Performing Arts: Intership (1-6)
- 67.535 Studies in Music History (3)

Visual or Fine Arts

- 05.100 Art: the Studio Experience 1:1 (3) or other approved studio art (05.xxx) courses
- 07.101 European Art: Renaissance to the Present (3) or other approved art history (07.xxx) courses
- 23.245 The Experience of Poetry 1:2 (3) or other approved Literature (23.xxx) courses
- 67.305 History and Philosophy of Dance I: 15th-19th Centuries (3)
- 67.306 History and Philosophy of Dance II: 20th Century (3)
- 67.365 Theatre History I: from the Greeks to the Renaissance (3)
- 67.366 Theatre History II: from Baroque to the End of the Nineteenth Century (3)
- 67.367 Theatre History III: Twentieth Century (3)

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Performing Arts: Music Theatre

Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of 12 credit hours of performing arts courses and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of at least 53 credit hours with grades of C or better
- Participation in a minimum of four department productions and management (as stage manager or assistant stage manager) of one of these productions before graduation

Course Requirements

- 67.127 Musicianship I (3)
- 67.128 Musicianship II (3)
- 67.251 Fundamentals of Acting I (3)
- 67.252 Fundamentals of Acting II (3)
- 67.260 Principles of Production I (4)
- 67.340 From Scene into Song (3)
- 67.342 Vocal Techniques for Music Theatre (3)
- 67.346 Survey of Music Theatre (3)
- 67.355 Speech and Voice for the Theatre (3)
- 67.445 Senior Capstone: Music Theatre (3)
- 67.507 Principles of Movement (3)
- Any two of the following:
 - 67.305 History and Philosophy of Dance: 15th–19th Centuries (3)
 - 67.306 History and Philosophy of Dance: 20th Century (3)
 - 67.322 History of Music I: from Antiquity to 1700 (3)
 - 67.323 History of Music II: from 1700 to Present (3)
 - 67.365 Theatre History I: from the Greeks to the Renaissance (3)
 - 67.366 Theatre History II: from Baroque to the End of the Nineteenth Century (3)
 - 67.367 Theatre History III: Twentieth Century (3)
- Nine credits of dance technique courses (selection dependent on student's level of ability)
- Two credits of applied music (68.xxx): piano
- Two credits of applied music (68.xxx): voice

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Performing Arts: Theatre

Admission to the Program

Formal admission to the major requires some previous theatre experience and demonstrated talent accomplished through an interview/audition arranged with a member of the theatre faculty. The interview/audition may be done before or after formal admission to the university at the discretion of the theatre faculty.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Tracks

Performance, Technical, or Arts Management

Major Requirements

- A total of 55 credit hours with grades of C or better
- Participation in a minimum of four department productions in either a performance or technical capacity. One of these must be done as stage manager or assistant stage manager.

Course Requirements

Core (34 credit hours)

- 67.115 Theatre: Principles, Plays, and Performance 1:1 (3)
- 67.181 Stage Make-up (1)
- 67.251 Fundamentals of Acting I (3)
- 67.260 Principles of Production I (4)
- 67.261 Principles of Production II (4)
- 67.265 Theatre Practicum (1) (four semesters minimum required: one each in scene shop, costume, public relations, and stage management)
- 67.365 Theatre History I: from the Greeks to the Renaissance (3)
- 67.366 Theatre History II: from Baroque to the End of the Nineteenth Century (3)
- 67.367 Theatre History III: Twentieth Century (3)
- 67.445 Senior Capstone: Theatre (3)

- 67.552 Directing Techniques (3)
- Completion of one of the following three tracks:

Performance Track (21 credit hours)

- 67.252 Fundamentals of Acting II (3)
- 67.350 Fundamentals of Acting III (3)
- 67.355 Speech and Voice (3)
- A dance course approved by the students's adviser
- Three credit hours from the following:
67.362 Lighting Design (3)
67.364 Basics of Scene and Costume Design (3)
- Six credit hours from the following:
67.440 Stage Management (3)
67.450 Rotating Topics in Theatre (3) (may be repeated for credit with different topic)
- 67.490 Independent Study Project in Performing Arts (1-6) (3 credits maximum)
- 67.491 Performing Arts: Internship (1-6) (3 credits maximum)
- 67.555 Acting and Directing for the Camera (3)
- 67.557 Creative Writers Performance Lab (3)
- 67.570 Survey of Arts Management (3)

Technical Track (21 credit hours)

- 05.205 Drawing: Responding to Vision 1:2 (3)
- 50.101 Fundamentals of Audio Technology (3)
- 67.252 Fundamentals of Acting II (3)
- 67.362 Lighting Design (3)
- 67.364 Basics of Scene and Costume Design (3)
- 67.440 Stage Management (3)
- Three credit hours from the following:
67.355 Speech and Voice (3)
67.450 Rotating Topics in Theatre (3)
67.490 Independent Study Project in Performing Arts (1-6) (3 credits maximum)
- 67.491 Performing Arts: Internship (1-6) (3 credits maximum)
- 67.555 Acting and Directing for the Camera (3)
- 67.557 Creative Writers Performance Lab (3)
- 67.570 Survey of Arts Management (3)

Arts Management Track (21 credit hours)

- 11.300 Principles of Management (3)
- 14.240 Principles of Financial Accounting (3)
- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 67.570 Survey of Arts Management (3)
- Three credit hours from the following:
67.362 Lighting Design (3)
67.364 Basics of Scene and Costume Design (3)
- Three credit hours from the following:
67.252 Fundamentals of Acting II (3)
67.440 Stage Management (3)
67.450 Rotating Topics in Theatre (3)

- 67.490 Independent Study Project in Performing Arts (1-6) (3 credits maximum)
- 67.491 Performing Arts: Internship (1-6) (3 credits maximum)
- 67.555 Acting and Directing for the Camera (3)
- 67.557 Creative Writers Performance Lab (3)

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Dance

Minor Requirements

- A total of 24 credit hours in dance, including at least 12 credits at the 300 level or above; a minimum of 12 credit hours must be taken in residence at American University.

Course Requirements

- 67.506 The Moving Body (3)
- 67.507 Principles of Movement (3)
- 67.411 Composition of Dance I (3)
or
67.412 Composition of Dance II (3)
- 67.305 History and Philosophy of Dance I: 15th-19th Centuries (3) *or*
67.306 History and Philosophy of Dance II: 20th Century (3)
- Twelve credit hours in dance electives

Note: Students must be assigned a departmental adviser if they intend to pursue the minor. Each student completing the minor must achieve some proficiency in dance performance. Required levels of proficiency are decided individually in conference with the director of the dance program, and take into account the student's interests, background, and abilities in dance.

Minor in Music

Minor Requirements

- A total of 21 credit hours, including at least 9 credit hours at the 300-level or above

Course Requirements

Performance

- 67.124 Harmony I (3) *and*
67.125 Harmony II (3)
or
67.227 Musicianship I (3) *and*
67.228 Musicianship II (3)
- 67.322 History of Music I: from Antiquity to 1700 (3) *or*
67.323 History of Music II: from 1700 to the Present (3)

- Three semesters of 68.122 Private Study (2) for a total of 6 credit hours
 - Six credit hours in music electives at the 300-level or above
- Theory/History**
- 67.124 Harmony I (3) *and*
67.125 Harmony II (3)
or
67.227 Musicianship I (3) *and*
67.228 Musicianship II (3)
 - 67.322 History of Music I: from Antiquity to 1700 (3) *or*
67.323 History of Music II: from 1700 to the Present (3)
 - Twelve credit hours of music electives at the 300-level or above

Minor in Theatre

- A total of 22 credit hours in theatre, including at least 12 credit hours at the 300 level or above

Course Requirements

- 67.115 Theatre: Principles, Plays, and Performance I:1 (3)
- 67.251 Fundamentals of Acting I (3)
- 67.260 Principles of Production I (4)
- 67.450 Rotating Topics in Theatre (3) *or*
67.557 Creative Writers' Performance Laboratory (3)
- One of the following:
67.362 Lighting Design (3)
67.364 Basics of Scene and Costume Design (3)
- One of the following:
67.350 Fundamentals of Acting III (3)
67.355 Speech and Voice for the Theatre (3)
67.450 Rotating Topics in Theatre (3)
67.555 Acting and Directing for the Camera (3)
- One of the following:
67.220 Reflections of American Society on Stage and Screen I:2 (3)
67.365 Theatre History I: from the Greeks to the Renaissance (3)
67.366 Theatre History II: from Baroque to the End of the Nineteenth Century (3)
67.367 Theatre History III: Twentieth Century (3)

Note: At least 9 of the required 22 credit hours must be taken in residence at American University. Students must be assigned a departmental adviser if they intend to pursue the minor.

M.A. in Performing Arts: Arts Management

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed nine or more undergraduate courses in theatre, dance, music, or visual arts, one-third of which must be advanced work or its equivalent. Equivalent training is understood to be four or more years' experience in a professional company or organi-

zation. Students entering the program with this background will be asked for an interview at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of 12 credit hours of work with a minimum grade point average of 3.00 (on a 4.00 scale).

Degree and Major Requirements

- A total of 45 credit hours of approved graduate work
- Advancement to candidacy on completing 12 to 18 credit hours with a grade point average of 3.00 or higher (on a 4.00 scale), removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser
- A four-hour comprehensive examination covering three areas: arts management, administration, and an art area of specialization
- A thesis written in conjunction with 67.797 Master's Thesis Seminar (6)
A non-thesis option in conjunction with 67.798 Non-thesis Option Seminar. The non-thesis option involves a case study, an in-service project, an original creative work, specified research courses, or other such effort as the teaching unit may designate. Projects are approved by the adviser, committee, and the department graduate studies committee before work begins.

Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.672 Rotating Topics in Arts Management (3)
- 67.673 Fund Raising Management for the Arts (3)
- 67.585 Creative Theories and Criticism in Performing Arts (3)
- 67.691 Performing Arts: Internship (6) *or*
67.692 Cooperative Education Field Experience (1-6)
- Two electives in nonmanagerial arts-related topics
- Six credit hours to fulfill the thesis or non-thesis option requirement
- The remainder from courses in business administration, communication, public relations, or public administration

M.A. in Performing Arts: Dance

Admission to the Program

Students must meet the minimum university requirements for graduate study. Two letters of recommendation are required. In addition to meeting the minimum university requirements for graduate study, applicants must have completed eight to ten courses or the equivalent in undergraduate dance, theatre, or music, half of which must be in dance. Equivalent training is understood to be four to six years' experience in a professional company or organization. Students entering the program with this background will be asked for an interview, at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of 12 credit hours of work in the department with a grade point average of 3.00 (on a 4.00 scale).

Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
- Courses are based on the student's chosen area of focus and are selected in consultation with an adviser.
- Students are urged to structure their degree programs so as to develop individual talent and may do so in close counsel with their advisers.
- Advancement to candidacy on completing 12 to 18 credit hours with a grade point average of 3.00 or higher (on a 4.00 scale), removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser.
- A four hour comprehensive examination covering three areas determined by the student and adviser.
- Thesis option: 67.797 Master's Thesis Seminar and a written research project in the field of history, criticism, performance and choreographic theory, methods of teaching, body knowledge, or related areas approved by the adviser, committee, and the department graduate studies committee before work begins.
- Nonthesis option: 67.798 Nonthesis Option Seminar which may include a performance in the area of the student's specialization, e.g., choreography or dance performance approved by the adviser, committee, and the department graduate studies committee before work begins. The completed project includes a written production book.

Special Opportunities

Information regarding graduate assistantships in dance is available from the department.

Graduate Certificate in Arts Management

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed nine or more courses in theatre, dance, music, or visual arts, one third of which should be advanced work or equivalent training. Equivalent training is four or more years' experience in a professional organization. Application and official transcripts should be submitted to the Special Programs Advising Center, McKinley 153. Students are also encouraged to schedule a personal interview with the program director.

Certificate Requirements

- Fifteen credit hours of approved graduate study

Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.672 Rotating Topics in Arts Management (3) (two rotating topics, for a total of 6 credits, must be taken to satisfy this requirement.)
- 67.673 Fund-Raising Management for the Arts (3) or 67.585 Creative Theories and Criticism in Performing Arts (3)

Graduate Certificate in Dance

Admission to the Program

Applicants should meet the minimum university requirements for graduate study. Submit application and official transcripts to the Special Programs Advising Center, McKinley 153. Students are encouraged to schedule a personal interview with the director.

Certificate Requirements

- Fifteen credit hours of approved graduate study

Course Requirements

- Five of the following:
 - 67.506 The Moving Body (3)
 - 67.507 Principles of Movement (3)
 - 67.596 Selected Topics with permission of the student's adviser (3)
 - 67.602 Modern Dance III (3)
 - 67.604 Advanced Ballet (3)
 - 67.605 History and Philosophy of Dance I: 15th–19th Centuries (3)
 - 67.606 History and Philosophy of Dance II: 20th Century (3)
 - 67.610 Workshop in Dance Production (3)
 - 67.611 Composition of Dance I (3)
 - 67.612 Composition of Dance II (3)

Graduate Certificate in Dance and Health Fitness Management

This certificate is designed to create a bridge between the many aspects of the fitness/health sciences and dance fields for those seeking to enhance career opportunities and overall mind-body knowledge.

Certificate Requirements

- Fifteen credit hours of approved graduate study

Course Requirements

- 49.790 Critical Issues in Health Fitness Management (3)
- 67.506 The Moving Body (3)
- 67.507 Principles of Movement (3)
- Six credit hours from the following:
 - 49.610 Applied Human Physiology I (3)
 - 49.618 Strategic Planning in Health Fitness (3)
 - 49.640 Nutrition for Health Fitness (3)
 - 67.611 Dance Composition (3)
 - 67.605 History and Philosophy of Dance I: 15th–19th Centuries (3)
 - 67.606 History and Philosophy of Dance II: 20th Century (3)

Philosophy and Religion

Chair David F.T. Rodier

Full-Time Faculty

William Fraser McDowell Professor J.H. Reiman

Professor Emeritus H.A. Durfee, C.S.J. White

Professor G. Greenberg, C.D. Hardwick

Associate Professor D.F.T. Rodier, P.H. Scribner

Assistant Professor P. Huntington, L.J. Peach

Philosophy can be the avenue to develop skills in clear thinking and accurate writing. It offers the challenge of interpreting the work of the individuals who have created our intellectual traditions. Philosophy probes the nature of the real world, the basis of human values, and the foundations of reason. Students at American University approach these issues through study of both historical literature and contemporary developments.

Graduates of our undergraduate program pursue graduate work not only in philosophy but in such related areas as history and literature. Many positions in science and industry require the kinds of analytical skills gained through the study of philosophy. Philosophy teaches precision in reasoning and clarity in expression—assets in any field. The study of philosophy has often preceded preparation for law, medicine, social work and the ministry, and other professional careers. In the humanities the study of philosophy leads to Graduate Record Exam skills similar to those in the sciences. The Consortium of Universities of the Washington Metropolitan Area also offers a wide variety of courses in philosophy that may be available to American University students.

The study of Western and Eastern religious traditions introduces students to a major influence on all civilizations. Future journalists, diplomats, and government specialists will benefit from a serious consideration of the inner workings of the religious ethos of civilizations. We are reminded by daily events that there is no more motivating factor in the cultures of nations than ardently held religious belief. A thorough understanding of the modern world requires familiarity with its religious heritage.

American University's Washington, D.C. setting is advantageous for the study of religion. Christian and Jewish groups maintain national offices in the capital; representatives of non-Western religions have shrines in the metropolitan area. The religious leadership centered in Washington, D.C. welcomes the interest of students in their way of life.

The Department of Philosophy and Religion annually awards the Col. Harold and Ruth Pearson Prize in Philosophy to a major who has demonstrated excellence in the study of philosophy. The department also annually awards the Donald and Sammy Kane Prize in Religion to a student who has demonstrated excellence in the study of religion.

B.A. in Philosophy

Admission to the Program

Admission is through a formal declaration of major. The department counsels freshmen and new transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 39 credit hours with grades of C or better

Course Requirements

- Thirty credit hours in philosophy and religion, including 9 credit hours in philosophy at the 300 level or above, and up to 9 credit hours in religion
- Nine credit hours in a single department outside of philosophy and religion, including 6 credit hours at the 300 level or above

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. Upper-level Honors courses for majors in philosophy or religion are given in the Department of Philosophy and Religion as Honors supplements to 300-level courses or above. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Philosophy

- A total of 21 credit hours, including at least 9 credit hours at the 300 level or above

Course Requirements

- 60.100 Introduction to Logic (3)
- Three credit hours chosen from the following:
60.105 Western Philosophy 2:1 (3)
60.300 Ancient and Medieval Philosophy (3)
60.301 Modern Philosophy from Bacon to Hegel (3)
- Fifteen credit hours in philosophy (or 12 credit hours in philosophy and 3 credit hours in religion)

Minor in Religion

Minor Requirements

- A total of 21 credit hours, including at least 9 credit hours at the 300 level or above

Course Requirements

- Nine credit hours chosen from the following:
61.105 Religious Heritage of the West 2:1 (3)
61.170 Introduction to the New Testament (3)
61.185 Forms of the Sacred: Religions of the East 3:1 (3)
61.220 Religious Thought 2:2 (3)
- Twelve credit hours in religion (or 9 credit hours in religion and 3 credit hours in philosophy)

Combined B.A and M.A. in Philosophy or Philosophy and Social Policy

This program is designed for students who are interested in a career in philosophy, other careers where analytical skills are needed, or a stronger foundation in philosophy for further graduate education such as law school.

Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate philosophy majors should apply for admission to the B.A./M.A. program by the end of the junior year.

Admission is open to undergraduates whose grade point average in philosophy and overall is 3.00 (on a 4.00 scale). Applications must be accompanied by two letters of recommendation and a statement of purpose. Students should discuss their interest in the program and their course schedules with members of the faculty before submitting a formal application.

Requirements

- All requirements for the B.A. in Philosophy degree
- All requirements for the M.A. in Philosophy or the M.A. in Philosophy and Social Policy degree

Students may apply 6 credit hours at or above the 500 level in philosophy to satisfy the requirements for both degrees.

M.A. in Philosophy

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record and two letters of recommendation. The Graduate Record Examination (GRE) General is optional.

Degree and Major Requirements

- At least 30 credit hours of approved graduate work, including 6 hours of 60.797 Master's Thesis Seminar

- Advancement to candidacy after successful completion of 12 credit hours of graduate work
- Proficiency examination in French or German as a tool of research
- One eight hour examination in philosophy (administered on two days, four hours each day); Examination fields 60.01A and 60.01B
- Thesis and oral defense of thesis

M.A. in Philosophy and Social Policy

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed at least one introductory course in philosophy with a grade of B or better. Admission is based on academic record and two letters of recommendation. The Graduate Record Examination (GRE) is optional.

Degree and Major Requirements

- Thirty-three hours of approved graduate work, including a 3 credit hour internship in an appropriate setting (e.g., National Institutes of Health (NIH), National Institute of Mental Health (NIMH), a hospital, a prison) followed by a substantial paper analyzing the ethical and social issues arising in that experience. Students who are already employed full-time may request permission to receive credit for appropriate earlier work or volunteer experience, but the paper will still be required. No thesis is required; in its place students take seminars among their required courses.
- One four hour comprehensive examination in philosophy, 60.01C

Course Requirements

- 60.520 Seminar on Ethical Theory (3)
- 60.525 Seminar on Modern Moral Problems (3)
- 60.545 Seminar on Theories of Human Nature (3)
- 60.602 Nineteenth Century Philosophy (3)
- 60.603 Twentieth Century Philosophy (3)
- 60.641 Philosophy of the Social Sciences (3)
- Two elective graduate courses (6 credit hours) in philosophy or religion, with departmental approval
- Two courses in social science or social policy (6 credit hours), chosen with departmental approval from fields such as economics, sociology, anthropology, government, public administration, and justice

Physics

Chair Robert Dewitt

Full-Time Faculty

Professor Emeritus E.R. Callen, M. Harrison, R.B. Kay,

R.V. Waterhouse, J.A. White

Professor R. Berendzen, R. Dewitt, H.R. Reiss, R.A. Segnan

Research Professor R. Arnold, P. Bosted, S. Rock

Associate Research Professor Z. Szalata

Assistant Professor T. Hein, S. Norcross

Physics is the study of the basic properties of the physical universe: gravitation, electricity and magnetism, atomic and nuclear structure, and aggregate matter. The department supports three areas of research concentration: high-energy nuclear physics in an outstanding collaborative program with the Stanford Linear Accelerator Center (SLAC); condensed matter physics with specializations in solid-state magnetism, physical acoustics, and the study of phase transitions in systems near their critical points; and intense field/laser studies on the interaction of intense electromagnetic radiation with matter. All students are encouraged to participate in research.

There are two tracks in the B.S. major. The applied track has all of the pre-engineering components, including seventeen hours of electronics. It prepares students for many technical positions which currently exist in industry and government. The graduate preparation track is for students who plan to enter M.S. and Ph.D. programs. It includes more high-level courses in quantum physics, mechanics, and electricity and magnetism.

The department also offers a B.S. in Audio Technology (see Audio Technology in this chapter).

Experimental and theoretical research projects are available for graduate students. The M.S. degree qualifies students for many research and development positions, including those at research laboratories. The Ph.D. degree is offered for students who have performed exceptionally in their M.S. work and who have obtained the sponsorship of a faculty member who will be the student's major professor. The department actively collaborates with many of the Washington area research laboratories; in appropriate cases, dissertation and thesis research may be performed at these laboratories.

B.S. in Physics

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and approval of the department undergraduate adviser. The department counsels freshmen and transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing

- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 50 credit hours with grades of C or better

Course Requirements

- 51.110 University Physics I 5:1 (4)
- 51.210 University Physics II 5:2 (4)
(51.110 and 51.210 may be waived for students with exceptional high school preparation)
- 51.330 Classical Mechanics (3)
- 51.350 Electricity and Magnetism (3)
- 51.370 Modern Physics (3)
- 51.540 Experimental Physics (3)
- 15.110 General Chemistry I 5:1 (4)
- 15.210 General Chemistry II 5:2 (4) (or equivalent)
- 15.410 Physical Chemistry I (3)
- 41.221 Calculus I (4)
- 41.222 Calculus II (4)
- 41.223 Calculus III (4)
- 41.321 Differential Equations (3)
- 64.280 Introduction to Computer Science I (4)

Options

Applied Physics Courses

- 50.312 Electronics I (3)
- 50.313 Electronics II (3)
- 50.322 Electronics Lab I (2)
- 50.323 Electronics Lab II (2)
- 50.500 Digital Interfacing (4)
- 50.501 Microprocessors and Digital Audio (4)

Graduate Preparation Courses

- 51.530 Mechanics (3)
- 51.550 Electromagnetic Waves (3)
- 51.570 Introduction to Quantum Mechanics (3)
- 51.571 Special Topics in Applied Quantum Mechanics (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)

Other Recommendations

- 09.110 General Biology I 5:1 (4)
- 09.210 General Biology II 5:2 (4)
- 64.281 Introduction to Computer Science II (3)

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill requirements for University Honors in Physics, students may take Honors supplements to satisfy the advanced-level requirements, but are especially encouraged to meet with members of the Physics faculty to discuss independent research projects that could comprise both the advanced-level and capstone experiences. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two tracks, in Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through course work spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Programs chapter in this catalog.

Minor in Physics

- A total of 24 to 25 credit hours

Course Requirements

- 51.105 College Physics I 5:1 (4)
or
51.110 University Physics I 5:1 (4)
- 51.205 College Physics II 5:2 (4)
or
51.210 University Physics II 5:2 (4)
- 41.221 Calculus I (4) *and*
41.222 Calculus II (4)
or
41.211 Applied Calculus I (4) *and*
41.212 Applied Calculus II (3)
- 51.370 Modern Physics (3)
- 51.330 Classical Mechanics (3)
- 51.350 Electricity and Magnetism (3)

M.S. in Physics

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation (unless the previous degree was earned in the department), and approval of the department graduate advisers. The department counsels entering graduate students.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- Two written comprehensive examinations: 51.001 Mechanics, Thermal and Statistical Physics, Mathematical Physics, and 51.002 Electromagnetism, Quantum Mechanics, Applications
- Nonthesis option: 6 credit hours of advanced work approved by the department graduate advisers
- Thesis option: an approved thesis in conjunction with 51.797 Master's Thesis Seminar

Course Requirements

- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 51.530 Mechanics (3)
- 51.550 Electromagnetic Waves (3)
- 51.570 Introduction to Quantum Mechanics (3)
- 51.565 Basic Concepts in Statistical Physics (3)
or
51.546 Thermodynamics and Statistical Physics (3)
- Two courses chosen from the following:
51.630 Mechanics I (3)
51.631 Mechanics II (3)
51.650 Electromagnetic Theory I (3)
51.651 Electromagnetic Theory II (3)
51.670 Quantum Mechanics I (3)
51.671 Quantum Mechanics II (3)
- Six credit hours to fulfill the thesis or nonthesis option

Ph.D. in Physics

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation (unless the previous degree was earned in the department), and approval of the department graduate advisers. The department counsels entering graduate students.

Research Concentrations

Nuclear high-energy experimental physics, condensed matter physics, and intense field/laser physics

Degree and Major Requirements

- A total of 72 credit hours of approved graduate work
- Advancement to candidacy after qualifying examination and approval of the dissertation proposal by the department graduate advisers
- Proficiency in a language or computer science or another tool of research approved by the student's dissertation committee
- The M.S. comprehensive examinations, 51.001 and 51.002, both passed with distinction
- Four approved comprehensive examinations: 51.005, 51.006, 51.007, and 51.008 (oral) covering the subject area of the dissertation and material relevant to the area of research.

The examinations 51.001 and 51.002 may be substituted for 51.005.

- Dissertation prepared in consultation with the student's dissertation committee and approved by that committee and the department graduate advisers
- Specialized seminars in the area of research concentration coordinated with the student's major professor

Preprofessional Programs

Pre-engineering

Faculty Liaison Michael Gray, Department of Computer Science and Information Systems

American University offers cooperative five-year engineering programs through the Washington University in St. Louis and the University of Maryland in College Park. Through these programs, American University students can combine the advantages of both liberal arts and professional education. Students are awarded two bachelor's degrees in a five-year period.

Students spend three years on the American University campus concentrating in a major field in the College of Arts and Sciences. In the third year, with recommendation of a pre-engineering adviser, students apply to the engineering program at either Washington University or the University of Maryland. After admission to the program, the fourth year of study is spent at the cooperating university. Once the student completes the requirements for the American University major (generally at the end of the fourth year), the first bachelor's degree is awarded. After completion of the engineering requirements during the fifth year, the student receives a bachelor's degree in engineering from the cooperating university.

Students work closely with a faculty adviser in one of the natural science departments, the Department of Mathematics and Statistics, the Department of Computer Science and Information Systems, or the office of the Associate Dean for Undergraduate Affairs. Advisers will individually tailor course selection to meet the student's interests and needs. Students are generally advised to major in either mathematics or natural science, and to maintain a high grade point average. If, however, the student chooses to complete a major in the arts, humanities, or social sciences, he or she may do so, provided that the engineering program requirements are also satisfied. Completion of basic courses must be done during the first three years of study in order to complete the requirements for an engineering degree in five years. Courses with grades below C will not transfer to the cooperating schools.

Course Requirements

- 51.630 Mechanics I (3)
- 51.631 Mechanics II (3)
- 51.650 Electromagnetic Theory I (3)
- 51.651 Electromagnetic Theory II (3)
- 51.670 Quantum Mechanics I (3)
- 51.671 Quantum Mechanics II (3)
- 51.799 Doctoral Dissertation Seminar (12)

Course Requirements

The engineering programs at Washington University and the University of Maryland have basic requirements which must be completed before entrance. The requirements cover a broad range of study.

Washington University

- English: evidence of ability to communicate effectively in written form as demonstrated by course work, acceptable examination scores, or college certification of proficiency
- Calculus: sequence through multivariate calculus plus differential equations
- Physics: a two-course sequence employing calculus and including laboratory
- Chemistry: a two-course sequence including laboratory
- Computer programming: one course in programming
- Humanities and social sciences: at least eighteen credit hours. At least 8 of the 18 credit hours must be in one department, including one course at the junior or senior level. No more than 9 credit hours of the performing arts or skill courses may count toward the required 18 credit hours. Courses having a distinctly mathematical or natural science content, even if listed under the humanities or social science department, are not acceptable for this requirement.
- Chemical Engineering: two-course sequence in organic chemistry

University of Maryland

- English: two courses in English composition
- Mathematics: two or three years of mathematics, including calculus and differential equations
- Physics: two years of general physics with laboratory and more in-depth study in mechanics and in electromagnetism or thermodynamics
- Chemistry: one year of general chemistry with laboratory
- Computer programming: one course in programming
- Humanities and social sciences: five courses in the humanities and the social sciences
- Chemical Engineering: two-course sequence in organic chemistry

Prelaw

Prelaw Advisers

Carl E. Cook, College of Arts and Sciences
 Arthur Harris, Kogod College of Business Administration
 Athena Argyropoulos, School of Public Affairs
 Linda Spicer, School of Public Affairs
 Suzanne Skillings, School of International Service
 Merry Mendelson, School of Communication

In considering law school, it is important that the prelaw student understand law schools' educational philosophy. As the *Law School Admission Bulletin* states: "Any course, regardless of field, that helps you develop clear and systematic thinking, command of the English language, and a broad understanding of our society constitutes sound preparation for the study of law. Thus, law schools do not recommend specific undergraduate majors for prelaw students." The prelaw student should also realize that admission to law school is selective. Students contemplating careers in law should plan their undergraduate study to undertake a substantial academic curriculum and acquire a background of outstanding extracurricular activities.

Students interested in prelaw preparation follow the normal procedure for declaring and fulfilling requirements for a major in one of the schools or departments or in gaining approval for an interdisciplinary program of study. Whatever the choice of major, the prelaw student's program should be supported by a broad selection of courses from mathematics, the natural sciences, the social sciences, and the humanities.

Courses recommended by law schools also include philosophy, literature and advanced writing courses, history, political science, accounting, business administration, economics, mathematics, languages, and other courses demanding logical thinking, analytical reasoning, or verbal proficiency.

The Law School Admission Test (LSAT) is required of every applicant to law school. It is strongly recommended that this test be taken in June before the senior year. With this test date, students can appraise their prospects and consider retaking the examination in October or December or both, or, if necessary, make alternate plans. Students apply directly to the Law School Admissions Service (LSAS) to take the test on the American University campus and should register six weeks before the test date. LSAT applications are available from the prelaw advisers.

The *Pre-Law Handbook*, published by the Law School Admissions Service, is helpful in describing law schools and their requirements. This handbook is available in the offices of the prelaw advisers and in the American University campus book store. Also available from the prelaw advisers is the *Pre-Law Guide: Questions and Answers*, which discusses the preparation for law school, the mechanics of applying, and the law school experience itself.

Premedical Programs

For more information contact the Department of Biology.

Application and Admissions

The premedical programs of College of Arts and Sciences are available to all undergraduate and graduate students to help them prepare for professional study in medicine, dentistry, veterinary medicine and other health allied careers. Premedical students have traditionally majored in the natural sciences, however, the medical professions are expressing increasing interest in students with a broadly-based liberal education, reflecting the broader social, ethical, and cultural roles played by members of the health profession in contemporary life.

Since 1988, the number of applicants to medical schools has increased about 15 percent each year. Although the national average is 50 percent, nearly 70 percent of American University students who have applied to medical, dental, or veterinary schools have been accepted by one or more professional school. Students from American University's premedical programs have been admitted to a wide range of professional schools, including the Medical College of Virginia, the Hahnemann School of Medicine, The Johns Hopkins University, The University of Chicago, and Duke University.

A Health Careers Forum is held each semester, giving an overview of the admissions process to medical, dental, and veterinary schools. In addition, representatives of health allied professions discuss career opportunities and provide an institutional perspective on future trends in health related fields.

Academic Advising

Students interested in the premedical programs should contact the coordinator for premedical programs as soon as possible. The coordinator meets with students each year to review their academic progress and to discuss their subsequent course of study at American University. Working in concert with the student's academic adviser in the major area of study, the coordinator helps assure a timely completion of both degree and premedical requirements.

The Premedical Evaluations Committee interviews students in the program and thoroughly examines their academic records, extracurricular activities, and letters of recommendation in order to prepare the comprehensive letter of evaluation which is sent to the professional schools. These interviews are usually completed no later than one year prior to the student's matriculation in the professional school.

Premedical Curriculum

Most health professional schools require the same foundation courses in mathematics and the sciences, along with a full year of college level writing. It is expected that students will complete their mathematics requirements in the freshman year; many professional schools require a year of calculus. All science courses must include laboratory components.

The following sequence of courses permits the most convenient means of completing the necessary required courses in time to take the Medical College Admissions Test (MCAT) or

the Dental Aptitude Test (DAT) in the spring of the junior year. These tests should be taken no later than one year prior to matriculation in medical or dental school. The Veterinary College Admission Test (VCAT) or the Graduate Record Examination (GRE) must be taken in the fall of the senior year for students interested in veterinary medicine. Most veterinary schools require the GRE instead of the VCAT.

Note: Students intending to major in Biology must take 09.110 General Biology I and 09.210 General Biology II in their freshman year.

Freshman Year

- 15.110 General Chemistry I 5:1 (4)
- 15.210 General Chemistry II 5:2 (4)
- 41.170 Precalculus Mathematics (3)
- 41.221 Calculus I (4)

Sophomore Year

- 09.110 General Biology I 5:1 (4)
- 09.210 General Biology II 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)

Junior Year

- 51.110 University Physics I 5:1 (4)
- 51.210 University Physics II 5:2 (4)

Students are also encouraged to take two or more upper-level courses in chemistry (09.xxx) and chemistry (15.xxx). Consult with the coordinator of the premedical programs for a list of the relevant courses.

Psychology

Chair Anthony H. Ahrens

Full-Time Faculty

Professor Emeritus E.M. McGinnies

Professor J.J. Gray, B.W. McCarthy, S.R. Parker, A.L. Riley, A.M. Silberberg, B.M. Slotnick, S.J. Weiss, B.T. Yates

Associate Professor A.H. Ahrens, B.D. Fantie, D.A. Haaga, F.Z. Peynircioglu, C.S. Weissbrod

Assistant Professor M. Carter, T. K. Elliott

The undergraduate program in the Department of Psychology offers the student an opportunity to appreciate psychology's diversity and its applications. Courses are offered in clinical, social, personality, developmental, and experimental psychology. Advanced special topics courses in these and related areas are often available. Students may design programs that approach psychology as a social science, a natural science, or a combination of the two. Advanced students have the opportunity to become actively involved in both psychological research and paraprofessional counseling. During their junior and senior years, majors are encouraged to take small,

The above sequence presumes that a student has already decided by the beginning of his or her freshman year to pursue a premedical course of study. However, students who do not make this decision until the sophomore or even the beginning of the junior year are not precluded from selecting a career in health sciences. American University provides sufficient flexibility and resources to enable serious students to prepare for medical studies. Students who do not decide on a medical career until the middle of their undergraduate studies or later may need to complete their premedical requirements during summers or in a post-baccalaureate year.

Special Opportunities

Junior and senior premedical students are encouraged to engage in independent research projects in biology, chemistry, physics, or psychology which may lead to publication and presentation of papers.

Many opportunities for internships, volunteer work, and field studies are available at the National Institutes of Health (NIH), the Walter Reed Army Institute of Research, and the Smithsonian Institution. In addition to gaining first-hand experience in basic research in such areas as immunology, microbiology, and molecular genetics, students may obtain academic credit through an internship. Similar opportunities are available for students volunteers gaining clinical experience at many area hospitals and clinical centers, such as Children's National Medical Center, Columbia Hospital for Women Medical Center, and NIH.

Honor Society

Alpha Epsilon Delta, the national premedical honor society, has a chapter on the American University campus (the District of Columbia Beta Chapter).

specialized seminars and engage in supervised independent study. Undergraduate majors also have opportunities for internship experience with community mental health agencies and may participate in ongoing research within the department. The program is sufficiently flexible and broad to satisfy career goals and provide a solid background for graduate study.

Affiliations

Washington, D.C. Veterans Administration Hospital; Baltimore Veterans Administration Hospital; St. Elizabeth's Hospital; Community Psychiatric Center (Bethesda); Georgetown University Hospital (Department of Pediatrics); Kennedy Institute (Baltimore); Children's Hospital (Washington, DC) Institute for Behavioral Resources; George Washington University Medical Center; North Center (Washington, DC); the Johns Hopkins University School of Medicine; Veterans Administration Medical Center (Perry Point, MD); Alexandria Community Mental Health Center; Woodburn Center for Community Mental Health; Eastern Virginia Medical School, Department of Psychiatry (Norfolk, VA).

B.A. in Psychology

Admission to the Program

Formal admission to the major requires departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 40 credit hours with grades of C or better

Course Requirements

- 57.105 Psychology: Understanding Human Behavior 4:1 (3)
- 57.115 Experimental Foundations of Psychology 5:1 (3)
- 42.202 Basic Statistics (4)
- One course in Bio-psychology chosen from the following:
 - 57.240 Drugs and Behavior 5:2 (3)
 - 57.318 Fundamentals of Human Neuropsychology (3)
 - 57.325 Neurobiological Bases of Behavior (3)
 - 57.360 The Evolution of Behavior (3)
- One course in Learning and Cognition from the following:
 - 57.200 Behavior Principles 5:2 (3)
 - 57.220 The Senses 5:2 (3)
 - 57.300 Cognitive Psychology (3)
 - 57.370 Learning and Behavior (3)
- Two courses in the Individual, the Situation, and Psychological Health from the following:
 - 57.205 Social Psychology 4:2 (3)
 - 57.215 Abnormal Psychology and Society 4:2 (3)
 - 57.230 Theories of Personality 2:2 (3)
 - 57.333 Health Psychology (3)
 - 57.350 Child Psychology (3)
- Psychology (57.xxx) electives to complete the required 40 hours

Students will be advised concerning the 300–500-level courses available to them as electives.

Note: No more than a combined total of 6 credits of 57.390 Independent Reading Course in Psychology, 57.392 Cooperative Education Field Experience, 57.490 Independent Study Project in Psychology, and 57.491 Internship, will apply toward fulfilling major requirements.

Recommendations

Students should consult their faculty advisers in planning their schedules. Students interested in careers such as those in research and teaching, mental health professions, and person-

nel and industrial psychology will want to choose curriculums suited to their goals. The breadth of the field of psychology and of the department's course offerings make careful planning important.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Psychology

- A total of 21 credit hours (seven courses) in psychology with grades of C or better

Course Requirements

- 57.105 Psychology: Understanding Human Behavior 4:1 (3)
- 57.115 Experimental Foundations of Psychology 5:1 (3)
- Three credit hours (one course) from Bio-psychology or Learning and Cognition courses (see major requirements above)
- Three credit hours (one course) from the Individual, the Situation, and Psychological Health courses (see major requirements above)
- Electives to complete the required 21 hours

Combined B.A. and M.A. in Psychology

This program enables full-time students to complete both the B.A. and M.A. in Psychology in five years.

Admission to the Program

Students should apply for this program no later than the first semester of the senior year and no earlier than the first semester of the junior year. Students must have a 3.00 grade point average (on a 4.00 scale) in psychology and statistics courses and must have completed at least half of the credit hours required for the B.A. in Psychology. The undergraduate statistics course required for the B.A. must be completed before applying to the M.A. program. Students must submit a completed graduate application form (through the Office of Admissions), Graduate Record Examination (GRE) scores for the General examination (Verbal, Quantitative, and Analytic), two letters of recommendation, and copies of all college transcripts.

Degree and Major Requirements

- All requirements for the B.A. in Psychology
 - All requirements for the M.A. in Psychology
- Students may apply two 500-level courses (up to 6 credit hours) toward meeting the requirements of both degrees.

M.A. in Psychology

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (GRE) General examination. Admission is based on academic record, test scores, and two letters of recommendation.

Completion of the degree does not necessarily lead to admission to the Ph.D. program; students who wish to be considered for the Ph.D. program must apply. Applicants with a B.A. who wish to obtain a Ph.D. in Psychology from American University should apply directly to the Ph.D. program. If they do not have an M.A., they will earn one as part of the Ph.D. program. See the following description of the Ph.D. program and its clinical and experimental tracks for more information.

Up to 6 credit hours of graduate course work in psychology from another university or up to 12 credit hours of graduate course credit taken at American University may be transferred, provided that these credits were not counted toward another degree. These transfers of credit are subject to approval by the director of the M.A. program.

Tracks

General, Personality/Social, and Experimental/Biological

Degree and Major Requirements

- A total of 33 credit hours of approved graduate work
- The written General Comprehensive Examination (offered every fall, spring, and summer term)
- Thesis option: The master's thesis involves an original research project. Students must prepare a thesis proposal, collect and analyze data, submit a written thesis, and give an oral defense.

Nonthesis option: available only in the General Psychology track (see Course Requirements, below).

Course Requirements

General Psychology

- Two courses chosen from the following:
 - 57.505 Advanced Theories of Personality (3)
 - 57.514 Industrial/Organizational Psychology (3)
 - 57.533 Cognitive Behavior Therapy (3)
 - 57.540 Advanced Social Psychology (3)
 - 57.545 Psychology of Sex Similarities and Differences (3)
 - 57.551 Psychopathology: Theory and Research (3)
 - 57.560 Advanced Child Psychology (3)
 - 57.570 Behavioral Medicine (3)
 - 57.596 Selected Topics course in the Personality/Social area with permission of the student's adviser (3)
 - 57.633 Psychological Assessment I (3)
- Two courses chosen from the following:
 - 57.501 Physiological Psychology (3)
 - 57.513 Neuropharmacology: The Biochemistry of Behavior (3)
 - 57.515 Biopsychology Laboratory Methods (4)

- 57.518 Advanced Human Neuropsychology (3)
- 57.530 Conditioning and Learning (3)
- 57.575 Human Cognition (3)
- 57.585 Advanced Human Memory (3)
- 57.597 Topics in Psychology (3)
- 57.618 Principles of Neuropsychological Assessment (3)
- A graduate seminar in experimental psychology or neuroscience (3)

- One graduate statistics course

Nonthesis Option (for General Psychology track only):

- Six credit hours from the following:
 - 57.550 Psychological Research I (3)
 - 57.698 Directed Research (3-6)
- Four graduate elective courses (12 credit hours), of which at least 6 credit hours are from the Department of Psychology (57.xxx).

Thesis Option:

- 57.550 Psychological Research I (3)
- Six credit hours from the following:
 - 57.796 Master's Thesis Seminar (3)
 - 57.797 Master's Thesis Research (1-3)
- Three graduate elective courses (9 credit hours), of which at least 6 credit hours are from the Department of Psychology (57.xxx).

Personality/Social Psychology

- Four courses chosen from the following:
 - 57.505 Advanced Theories of Personality (3)
 - 57.514 Industrial/Organizational Psychology (3)
 - 57.533 Cognitive Behavior Therapy (3)
 - 57.540 Advanced Social Psychology (3)
 - 57.545 Psychology of Sex Similarities and Differences (3)
 - 57.551 Psychopathology: Theory and Research (3)
 - 57.560 Advanced Child Psychology (3)
 - 57.570 Behavioral Medicine (3)
 - 57.596 Selected Topics course in the Personality/Social area with permission of the student's adviser (3)
 - 57.633 Psychological Assessment I (3)
- A graduate seminar in clinical, personality, or social psychology (3)
- Two courses from the following:
 - 57.501 Physiological Psychology (3)
 - 57.513 Neuropharmacology: The Biochemistry of Behavior (3)
 - 57.515 Biopsychology Laboratory Methods (4)
 - 57.518 Advanced Human Neuropsychology (3)
 - 57.530 Conditioning and Learning (3)
 - 57.575 Human Cognition (3)
 - 57.585 Advanced Human Memory (3)
 - 57.597 Topics in Psychology (3)
 - 57.618 Principles of Neuropsychological Assessment (3)
- A graduate seminar in experimental psychology or neuroscience (3)
- One graduate statistics course

- 57.550 Psychological Research I (3)
- One graduate elective
- Six credit hours from the following:
57.796 Master's Thesis Seminar (3)
57.797 Master's Thesis Research (1-3)

Experimental/Biological Psychology

- Four courses from the following:
57.501 Neuropsychological Psychology (3)
57.513 Neuropharmacology: The Biochemistry of Behavior (3)
57.515 Biopsychology Laboratory Methods (4)
57.518 Advanced Human Neuropsychology (3)
57.530 Conditioning and Learning (3)
57.575 Human Cognition (3)
57.585 Advanced Human Memory (3)
57.597 Topics in Psychology (3)
57.690 Independent Study Project in Psychology in a recognized area of experimental/biological psychology (3)
57.618 Principles of Neuropsychological Assessment (3)
A graduate seminar in experimental psychology or neuroscience
- Two courses from the following:
57.505 Advanced Theories of Personality (3)
57.514 Industrial/Organizational Psychology (3)
57.533 Cognitive Behavior Therapy (3)
57.540 Advanced Social Psychology (3)
57.545 Psychology of Sex Similarities and Differences (3)
57.551 Psychopathology: Theory and Research (3)
57.560 Advanced Child Psychology (3)
57.570 Behavioral Medicine (3)
57.596 Selected Topics course in the Personality/Social area with permission of the student's adviser (3)
57.633 Psychological Assessment I (3)
- One graduate elective
- One graduate statistics course
- 57.550 Psychological Research I (3)
- Six credit hours from the following:
57.796 Master's Thesis Seminar (3)
57.797 Master's Thesis Research (1-3)

Ph.D. in Psychology

There are two tracks within the doctoral program, Clinical (APA accredited) and Experimental. Students who have been admitted to the doctoral program in psychology but do not have an M.A. in psychology that has been accepted by the department must complete the degree requirements for the M.A. in Psychology (thesis option) before they can be awarded the doctorate. The master's degree is awarded on completion of the M.A. course requirements, successful defense of a research thesis, and completion of the General Comprehensive Examination.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (General and Advanced Psychology tests). Admission is based on test scores, previous academic performance, and letters of recommendation. Those applicants to the Clinical Psychology track judged to be among the top 30 or 35 are invited for an interview, and the final selection is based on all information, including the interview. Students are admitted for full-time study only.

Tracks

Clinical Psychology and Experimental Psychology

Degree and Major Requirements

- A total of 72 credit hours of approved graduate work (including credits applied from the M.A. in General Psychology)
- Two tools of research are required but do not result in course credit toward the degree. The tool requirement is flexible and can be met in a variety of ways:
 - 1) demonstration of knowledge of a language relevant to the student's career;
 - 2) demonstration of mastery in a computer program language;
 - 3) satisfactory completion of one skill-oriented graduate course offered by another department at American University or by nonpsychology departments of the Consortium universities;
 - 4) participation in one clinical institute which is approximately equal in time and difficulty to a full course; and
 - 5) supervised tool training in other settings when approved by the student's adviser and the department chair.
- Four comprehensive examinations outlined by advisers or other faculty members. These are tasks which involve students in the kinds of activities they will later engage in as professional psychologists. At least one of the four comprehensives must be oral and at least two must be written.
- Dissertation: A written proposal for the dissertation is to be submitted to the dissertation committee by the middle of the second semester of the third year. The original proposal, or a revision thereof, should meet the requirements of the committee by the end of the second semester of the third year. This allows adequate time for completion of a quality dissertation even if initial experimentation turns out to be exploratory in nature.
- Clinical Psychology track: As part of the doctoral clinical track requirements, clinical students serve a one-year internship in an appropriate setting outside the university.

Course Requirements

Clinical Psychology

- 57.502 History and Systems of Psychology (3)
- 57.550 Psychological Research I (3)
- 57.551 Psychopathology: Theory and Research (3)
- 57.609 Ethics and Professional Practices (3)
- 57.630 Psychotherapy: Theory, Research, and Practice (3)

- 57.633 Psychological Assessment I (3)
- 57.652 Assessment of Intellectual Function and Personality (3)
- 57.680 Experiential Psychotherapy Practicum I (3)
- 57.681 Experiential Psychotherapy Practicum II (3)
- 57.710 Behavior Therapy Practicum (3)
- 57.791 Psychodynamic Psychotherapy Practicum I (3)
- 57.792 Psychodynamic Psychotherapy Practicum II (3)
- Six credit hours of statistics
- Six credit hours from the following:
 - 57.798 Doctoral Dissertation Seminar (3)
 - 57.799 Doctoral Dissertation Research (1–9)
- One course in Biological Bases of Behavior from the following:
 - 57.501 Physiological Psychology (3)
 - 57.513 Neuropharmacology: The Biochemistry of Behavior (3)
 - 57.518 Advanced Human Neuropsychology
- One course in Cognitive-Affective Bases of Behavior from the following:
 - 57.530 Conditioning and Learning (3)
 - 57.575 Human Cognition (3)
 - 57.585 Advanced Human Memory (3)
- One course in Individual Bases of Behavior from the following:
 - 57.505 Advanced Theories of Personality (3)
 - 57.560 Advanced Child Psychology (3)
- One course in Social Bases of Behavior from the following:
 - 57.521 Ethnic and Minority Issues (3)
 - 57.540 Advanced Social Psychology (3)
 - 57.545 Psychology of Sex Differences (3)

Experimental Psychology

- 57.550 Psychological Research I (3)
- 57.502 History and Systems of Psychology (3)
- Six credit hours of statistics
- At least six credit hours from the following:

- 57.798 Doctoral Dissertation Seminar (3)
- 57.799 Doctoral Dissertation Research (1–9)
- Three courses from Group 1 with at least one course each from Subgroups A and B:

Group 1

Subgroup A

- 57.551 Psychopathology: Theory and Research (3)
- 57.630 Psychotherapy: Theory, Research, and Practice (3)
- 57.633 Psychological Assessment I (3)

Subgroup B

- 57.505 Advanced Theories of Personality (3)
- 57.540 Advanced Social Psychology (3)
- 57.560 Advanced Child Psychology (3)
- Three courses from Group 2 with at least one course each from Subgroups A and B:

Group 2

Subgroup A

- 57.501 Physiological Psychology (3)
- 57.513 Neuropharmacology (3)
- 57.518 Advanced Human Neuropsychology (3)

Subgroup B

- 57.530 Conditioning and Learning (3)
- 57.575 Human Cognition (3)
- 57.585 Advanced Human Memory (3)

Special Opportunities

Special research opportunities in laboratories at the National Institutes of Health and related research institutions are available for students in both experimental and clinical psychology.

Sociology

Chair Kenneth Kusterer

Full-Time Faculty

Professor Emeritus/a A. Motz Blum, B. Kaplan,
G. Mueller, K. Petersen, J.C. Scott

Professor E. Chow, S. Farsoun, K. Kusterer, J. Siegenthaler,
R. Stone

Associate Professor L. Clark, B. Dickerson, G.A. Young

Assistant Professor K. Macharia, S. Schmeidl

Sociology explores how individuals, through their collective actions, create and change patterns of social relations and how, in turn, these social relations influence people's lives. Sociologists focus on three major levels of analysis, from whole societies as component parts of wider systems, to institutions as component sectors of society, to individuals as participants in two-person groups. They also study varied processes of social change, from migration to social mobility, from urbanization to mass communication. Finally, sociologists study a wide variety of themes, from racial and ethnic relations to social problems and political change. This quest for knowledge is both an end in itself and a pathway for informed social change.

The undergraduate program is unique in its emphases on global social change and applied sociology/social policy. Majors take core course sequences in sociological theory and social research and at least one course in each of four groups: Global Inequalities, Global Issues and Social Policy, Changing Institutions, and Regional Studies in Social Change

The graduate program in the department emphasizes sociological theory; social research (especially quantitative); and substantive areas which include macrosociology, social stratification, gender and family, and applied sociology. The department also offers a degree program in Sociology: Justice with the Department of Justice, Law and Society in the School of Public Affairs.

B.A. in Sociology

Admission to the Program

Formal admission to the major requires department approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 43 credit hours with grades of C or better; no more than 13 credit hours may be at the 100 or 200 level

Course Requirements

- 42.202 Basic Statistics (4)
- 65.150 Global Sociology 4:1 (3)
- 65.315 Major Social Theorists (3)
- 65.320 Introduction to Social Research (3)
- 65.392 Cooperative Education Field Experience (3) or 65.491 Internship (3) or equivalent experience approved by the department chair
- Three hours of advanced theory from the following:
65.415 Current Issues in Social Theory (3)
65.515 Models of Societal Development (3)
- Three hours of advanced research methods from the following:
65.422 Survey Research Methods (3)
65.423 Social Policy Research (3)
65.425 Social Advocacy and Change (3)
- One course from each of the following groups:

Global Inequalities: Gender, Race, Ethnicity and Class

- 65.210 Inequality: Class, Race, Ethnicity 4:2 (3)
- 65.235 Women in the Third World 3:2 (3)
- 65.351 Race and Ethnic Conflict: Global Perspectives (3)
- 65.352 Women, Men and Social Change (3)
- 65.553 Multiculturalism (3)
- 65.550 Studies in Stratification (3)

Global Issues and Social Policy

- 65.285 Education for International Development 3:2 (3)
- 65.350 Social Problems in a Changing World (3)
- 65.360 Individual Identity and Social Control (3)
- 65.365 Economic Development and Social Change (3)
- 65.387 The Post Industrial Metropolis (3)
- 65.389 Society and the Global Environment (3)
- 65.580 Social Policy Analysis (3)

Changing Institutions: Comparative Perspectives

- 65.205 The Family 4:2 (3)
- 65.220 Work and Leisure in America 4:2 (3)
- 65.370 Power, Politics and Society (3)
- 65.371 Religious Conflict and social Change (3)
- 65.372 Law, Rights and Society (3)
- 65.374 Social Welfare Institutions in Comparative Perspective (3)
- 65.570 Gender and Family (3)

Regional Studies in Social Change

- 65.100 American Society 4:1 (3)
- 65.110 Views from the Third World 3:1 (3)
- 65.225 Contemporary Arab World 3:2 (3)
- 65.230 Conflict and Change in Latin America 3:2 (3)
- 65.380 Pacific Rim Development in Comparative Perspective (3)

- 65.531 Regional Studies in Social Change (3)
- Six credit hours of Sociology (65.xxx) electives: no more than 3 credits at the 100-200 level, and at least 3 credits at the .500 level.
- 65.492 Major Research Seminar (3) (taken during the senior year)

Recommendations

Majors must complete 65.150 Global Sociology, 42.202 Basic Statistics and one course in at least two of the four course groups before the junior year. During the junior year majors should complete 65.315 Major Social Theorists, 65.320 Introduction to Social Research, the advanced theory course and the advanced methods course. All majors should take 65.492 Major Research Seminar during the senior year.

Students emphasizing applied sociology/policy analysis should select 65.580 Social Policy Analysis as a required elective, and take another course in the Global Issues and Social Policy course group.

Students emphasizing global social change should select 65.515 as their advanced theory course. It is also recommended that they demonstrate intermediate level competence in one modern foreign language.

Special Opportunities

The department actively promotes internship and cooperative education opportunities (a maximum of 6 credit hours) in both applied sociology/social policy and global social change.

Honor Society

Membership in the American University chapter of Alpha Kappa Delta, the international honor society in Sociology, is open to qualifying majors. The society sponsors lectures and other activities that involve undergraduates in the professional workings of the discipline.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Sociology

- A total of 21 credit hours

Course Requirements

- 65.150 Global Sociology 4:1 (3)
- 65.315 Major Social Theorists (3)
- 65.320 Introduction to Social Research (3)
- One of the following:
 - 65.415 Current Issues in Social Theory (3)
 - 65.422 Survey Research Methods (3)
 - 65.423 Social Policy Research (3)
 - 65.425 Social Advocacy and Change (3)
 - 65.515 Models of Societal Development (3)

- One course from three of the four course groups (see course requirements for the major, above); no more than 3 credits may be at the .200 level or below.

Combined B.A. and M.A. in Sociology or Applied Sociology

Admission to the Program

Students should apply for this program in the second semester of the junior year. Students must have an overall 3.00 (on a 4.00 scale) grade point average. Students must submit a completed graduate application form through the Office of Admissions. Admissions decisions to this combined program follow the same procedures and standards used to evaluate graduate applicants to the M.A. programs.

Students interested in applying to this combined program should consult with their adviser and other faculty members before formal application is begun.

Requirements

- All requirements for the B.A. in Sociology
- All requirements for either the M.A. in Sociology or the M.A. in Applied Sociology

Students may apply 6 credits of course work in sociology, including 42.514 Statistical Methods, to satisfy the requirements of both degrees.

M.A. in Applied Sociology

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. A background of social science course work is preferred. Admission to the program is at the discretion of the department's Graduate Committee and is based on academic record and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be considered on a case-by-case basis where minimum university requirements are not fully met (see the Graduate Study chapter, Provisional Standing section in this catalog). Although Graduate Record Examination (GRE) test scores are not required for admission, students are strongly encouraged to submit them if they wish to compete successfully for university Graduate Honor Awards.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work including the research requirement
- Statistics tool of research examination designated by the Department of Sociology, or a graduate level statistics course with a grade of B or better (3 credit hours) approved by the department
- Two comprehensive examinations: Methods of Social Research and Applied Sociology. A maximum of two attempts on each examination is permitted. The first attempt on the examination in Methods of Social Research must be taken in August before beginning the second year in the program; the second attempt must be taken in the next examination period in the fall semester (late November or early December).
- Research requirement (9 credit hours)

Course Requirements

- 65.580 Social Policy Analysis (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Introduction to Social Research (3)
- 65.622 Selected Topics in Social Research Skills (1) (three sections)
- 65.680 Social Policy Research (3)
- Three credit hours in one other field of concentration selected from the following: Macrosociology, Social Stratification, Gender and Family, or International Training and Education
- Three credit hours selected from the following:
A 500-level statistics course which has 42.514 Statistical Methods as a prerequisite
03.542 Principles of Applied Anthropology (3)
54.604 Public Program Evaluation (3)
60.525 Seminar on Modern Moral Problems (3)
64.511 Concepts in Systems and Information (3)

Students must complete 65.620 and 65.622 during their first year in the degree program.

- Research requirement (9 credit hours):
The following 9 credits encompass a research project under the guidance of a professor of the student's choice, and constitute the M.A. non-thesis research requirement:
65.690 Independent Study Project in Sociology (3) in the student's field of concentration
65.691 Internship (3)
65.795 Master's Research: Independent Study in Sociology (3)

M.A. in Sociology

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. A background of social science course work is preferred. Admission to the program is at the discretion of the department's Graduate Committee and is based on academic record and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be considered on a case-by-case basis where minimum university requirements are not fully met (see the Graduate Study chapter, Provisional Standing section in this catalog). Although Graduate Record Examination (GRE) test scores are not required for admission, students are strongly encouraged to submit them if they wish to compete successfully for university Graduate Honor Awards.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work including the research requirement
- Statistics tool of research examination designated by the Department of Sociology, or graduate level statistics course with a grade of B or better (3 credit hours) approved by the department

- Two comprehensive examinations: Methods of Social Research and Sociological Theory. Full-time students must take both examinations in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other in August before beginning their third year of study. A maximum of two attempts on each examination is permitted, one in August and one in the next examination period in the fall semester (late November or early December).
- Research requirement (6 credits): The first half may be satisfied with completion of an advanced seminar in research methods, an advanced seminar in the student's field of concentration, or an independent study course in the field of concentration. To satisfy the second half of the research requirement, the student must enroll in 65.795 Master's Research: Independent Study in Sociology under the guidance of a professor of the student's choice and complete a substantial research report on a topic related to the field of concentration.

Course Requirements

- 65.610 History of Sociological Theory (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Introduction to Social Research (3)
- 65.622 Selected Topics in Social Research Skills (1) (three sections)
- Two courses (6 credit hours) in one field of concentration selected from the following: Macrosociology, Social Stratification, Applied Sociology, Gender and Family, or International Training and Education
- Research requirement (6 credit hours)
- Electives (6 credit hours) to be decided individually between the student and the student's adviser

M.A. in Sociology: International Training and Education

Admission to the Program

In addition to meeting university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (GRE). Foreign applicants must also submit TOEFL scores. Applicants in foreign countries who are unable to take the GREs should contact the Department of Sociology prior to applying for admission to make alternative arrangements. Provisional admission may be considered on a case-by-case basis where minimum university requirements are not fully met.

Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
- One written comprehensive examination; consult program adviser for details
- Six credit hours of research, internship or advanced course work

Course Requirements

Core Courses (15 credit hours)

Development Training and Education

- 33.637 International Development (3)
- 65.549 Nonformal Education and Development (3)
- 65.642 Training Program Design (3)
- 65.648 Education and Development: Sector Analysis (3)
- 65.685 Proseminar: International Training and Education (3)

Global and Intercultural Education

- 33.642 Cross-Cultural Communication (3)
- 65.545 Global and Multicultural Education (3)
- 65.642 Training Program Design (3) *or*
- 21.583 Curriculum Construction and Program Design (3)
- 65.648 Education and Development: Sector Analysis (3)
- 65.685 Proseminar: International Training and Education (3)

Area of Concentration (15 credit hours)

- A group of elective courses drawn from a list of recommended courses or approved by an adviser

Research requirement for both tracks:

- 42.514 Statistical Methods (3) *and*
65.580 Social Policy Analysis (3)
or
65.691 Internship (6)
or

Two courses at the 600-level or above, including internship courses with the adviser's approval

Ph.D. in Sociology

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. A background of social science course work is preferred. Admission to the program is at the discretion of the department's Graduate Committee and is based on academic record and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be considered on a case-by-case basis where minimum university requirements are not fully met (see the Graduate Study chapter, Provisional Standing section in this catalog). Although Graduate Record Examination (GRE) test scores are not required for admission, students are strongly encouraged to submit them if they wish to compete successfully for university Graduate Honor Awards.

Note: The award of an M.A. degree from this department does not automatically qualify a student for acceptance into the doctoral program.

Students admitted to a master's degree program of the department may petition the Graduate Committee for admission to the Ph.D. program prior to completion of M.A. degree requirements. This requires completion of the M.A. comprehensive examinations with a grade of fully satisfactory or distinction, a grade point average of higher than 3.00 on a 4.00

scale in courses completed as M.A. candidates and letters of recommendation from two faculty members.

Degree and Major Requirements

- A total of 72 hours of approved graduate work:

Normally these 72 hours consist of 60 hours of course work and 12 hours of directed study on the dissertation. Students entering the Ph. D. program with M.A. degrees earned elsewhere must complete at least 42 of these hours in residence at American University, including at least 30 credit hours of graduate course work and at least 6 credit hours of dissertation research.

- Tool of research: proficiency in a language approved by the department and in statistics for social research. Consult the department for details on how to demonstrate proficiency in both tool areas. A grade of B or better is required in statistics courses taken to satisfy the statistics tool requirement.
- Four comprehensive examinations: Sociological theory, methods of social research, and one each in two other fields of concentration. At least one of the latter two must be oral. Full-time students must take the comprehensive examinations in sociological theory and methods of social research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other before beginning their third year of study. A maximum of three attempts on these examinations is permitted to doctoral students who enter the program with previous graduate work in sociological theory or methods of social research: one taken before enrollment in the required sequence (see Course Requirements below), one taken in the first examination period after completion of the required sequence, and one taken in the next examination period. Otherwise, a maximum of two attempts is permitted; one taken in the first examination period after completion of the required course sequence and one taken in the next examination period.

The comprehensive examination requirement in theory and methods of social research is waived for students who have completed the M.A. comprehensive examination requirement with a grade of fully satisfactory or distinction no more than three years before admission to the Ph.D. program.

- Every candidate must submit a dissertation proposal for approval by the candidate's dissertation committee, consisting of at least three and no more than five members, and must also submit the completed dissertation to the committee for approval. At least two members of the committee must be full-time faculty members of the Department of Sociology. Before taking the oral examination, the candidate must have completed all other requirements for the doctoral degree.
- Dissertation and oral examination of the dissertation in which the candidate may be questioned over the general field of the research done.

Course Requirements

- 65.610 History of Sociology Theory (3)
 - 65.611 Modern Sociological Theory (3)
 - 65.620 Social Research I (3)
 - 65.622 Selected Topics in Social Research Skills (1) (six sections)
 - 65.720 Research Seminar in Sociology (3)
- Full-time students must complete 65.610, 65.611, 65.620, and three sections of 65.622 during their first year in the degree program. Part-time students must complete the sequence in either 65.610/65.611 (theory) or 65.620/65.622 (methods) during their first year and the other sequence during their second year.
- The basic sequence requirement in theory or methods may be waived for students who receive a grade of fully satisfactory on the theory or methods comprehensive examination taken in the August before the semester in which they are required to begin the sequence. (See section on comprehensive examinations above.)
- Fully satisfactory performance on both the theory and methods comprehensive examinations is a prerequisite for 65.720 Research Seminar in Sociology
- Two courses in each of two fields of concentration:
At least one of the doctoral candidate's two fields of concentration must be selected from the following: Macrosociology, Social Stratification, Gender and Family, Applied Sociology or International Training and Education. Subject to departmental approval, candidates may offer a special area not in the listing above as one field of concentration.
 - Electives to be decided individually between the student and student's adviser

Ph.D. in Sociology: Justice

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. A background of social science course work is preferred. Admission to the program in Sociology with a specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the Department of Justice, Law and Society in the School of Public Affairs.

To apply for admission to this program, students supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit Graduate Record Examination (General) scores.

The Justice faculty reviews all applicants for the Justice specialization and recommends admission to the Department of Sociology, which makes the final decision.

Provisional admission may be considered on a case-by-case basis where university requirements are not fully met (see the Graduate Study chapter, Provisional Standing section in this catalog).

Degree and Major Requirements

- A total of 72 hours of approved graduate work:
Normally these 72 hours consist of 60 hours of course work and 12 hours of directed study on the dissertation. At least 12 hours and no more than 30 hours are taken in the Department of Justice, Law and Society in the School of Public Affairs. Students entering the Ph.D. program with M.A. degrees earned elsewhere must complete at least 42 of these hours in residence at American University, including at least 30 credit hours of graduate course work and at least 6 credit hours of dissertation research.
- Tools of Research: Proficiency in a language approved by both the Department of Sociology and the Department of Justice, Law and Society, and in statistics for social research. Consult the Department of Sociology for details on how to demonstrate proficiency in both tool areas. A grade of B or better is required in statistics courses taken to satisfy the statistics tool requirement.
- Four comprehensive examinations: sociological theory; methods of social research; a field of concentration approved by the Department of Sociology, usually in one of the four areas of concentration (Macrosociology; Social Stratification; Gender and Family; Applied Sociology); and the field of Justice, Law and Society administered by the Department of Justice, Law and Society. At least one of the examinations in the fields of concentration must be oral; however, the justice comprehensive examination must be written.
Full-time students must take the comprehensive examinations in sociological theory and methods of social research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other before beginning their third year. A maximum of three attempts on these examinations is permitted to doctoral students who enter the program with previous graduate work in sociological theory or methods of social research; one taken before enrollment in the required sequence (see Course Requirements below), one taken in the first examination period after completion of the required sequence, and one taken in the next examination period.
The comprehensive examination requirement in theory and methods of social research is waived for students who have completed the M.A. comprehensive examination requirement with a grade of fully satisfactory or distinction no more than three years before admission to the Ph.D. program.
- Every candidate must submit a dissertation proposal for approval by the candidate's dissertation committee, consisting of at least four and no more than five members. The chair of the dissertation committee and one other member are appointed by the Department of Justice, Law and Society. Two members are appointed by the Department of Sociology. A candidate must submit the completed dissertation to the dissertation committee for approval. Before taking the oral ex-

amination, the candidate must have completed all other requirements for the doctoral degree.

- Dissertation and oral examination of the dissertation in which the candidate may be questioned over the general field of the research done.

Course Requirements

- 65.610 History of Sociology Theory (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.622 Selected Topics in Social Research Skills (1) (six sections)
- 65.720 Research Seminar in Sociology (3)

Full-time students must complete 65.610, 65.611, 65.620, and three sections of 65.622 during their first year in the degree program. Part-time students must complete the sequence in either 65.610/65.611 (theory) or 65.620/65.622 (methods) during their first year and the other sequence during their second year.

The basic sequence requirement in theory or methods may be waived for students who receive a grade of fully satisfactory on the theory or methods comprehensive examination taken in the August before the semester in which they are required to begin the sequence. (See comprehensive examinations, above.)

- Two courses in one field of concentration offered by the sociology department: Macrosociology; Social Stratification, Gender and Family, Applied Sociology or International Training and Education.
- 73.710 Seminar in Justice, Law and Society (3) and three additional courses from the following:
73.674 Constitutional Law and Politics (3)
73.608 The Constitution and Criminal Procedure (3)
73.614 Law and the Behavioral Sciences (3)
73.615 Law and Human Rights (3)

- 73.643 Advanced Seminar in Policing (3)
- 73.644 Law and Social Control (3)
- 73.663 Advanced Seminar in Courts (3)
- 73.687 Law, Deviance, and the Mental Health System (3)
- 73.690 Independent Study Project in Justice (3)

- Electives to be decided individually between the student and the student's adviser

Graduate Certificate in Social Research

Prerequisite

- One of the following:
Statistics examination
42.514 Statistical Methods (3)
graduate-level statistics course

Course Requirements

- 65.580 Social Policy Analysis (3)
- 65.620 Introduction to Social Research (3)
- 65.622 Selected topics in Social Research Skills (1) (three sections)
- Three credit hours from the following:
65.622 Selected topics in Social Research Skills (1) (three additional sections)
65.680 Social Policy Research (3)
- Three credit hours from the following:
65.570 Gender and the Family (3)
65.550 Power and Poverty (3)
65.515 Models of Societal Development (3)
65.545 Global and Multicultural Education (3)
65.548 Education and Development (3)
65.549 Nonformal Education and Development (3)

Courses outside the Sociology department may substituted with the approval of the graduate director

Women's and Gender Studies

Director Amy Oliver

Faculty from other schools and departments of the university also teach in the program.

The Women's and Gender Studies Program at American University is an interdisciplinary program focused on women's experiences, issues facing women in the world today, and the significance of gender in shaping the experience of communities and individuals. The program is committed to a multicultural curriculum that sustains and integrates diverse perspectives. Women's and gender studies courses emphasize participatory education in which student involvement, critical thinking, and personal insight are encouraged and made relevant in the learning process. Many faculty members with national reputations for their work in gender issues regularly teach these courses. Their students benefit directly from the expertise of women and men who are leaders in this field of scholarship.

In addition to the women's and gender studies major and minor programs for undergraduates, graduate students can combine the study of women's and gender issues with the core courses in a traditional discipline to earn an M.A. or Ph.D. degree. Graduate programs participating in this program include anthropology, art, economics, education, history, international relations, literature, psychology, and sociology.

Students who major or minor in women's and gender studies gain experience off-campus through a cooperative education or internship placement in an organization or agency whose mission embraces some aspect of women's lives and experiences or of gender issues. Interns and co-op students are actively sought by organizations focused on the arts, advocacy, communications, employment and training issues, international rights, law, policy, U.S. politics, reproductive rights and health, research, and support services. Students tap into powerful networks that can give substantial support in career development at organizations in Washington, D.C. such as the Institute for Women's Policy Studies, the National Organization for Women, the Women's Legal Defense Fund, the National Gay and Lesbian Task Force, Amnesty International, or the National Museum of Women in the Arts. Students also have the opportunity to research women's and gender issues in the many government and nonprofit organizations located in the nation's capital.

The program hosts major speakers, performances, and lecture series on campus. These have included a performance of a Chinese women's opera, *Men Li Jun: The Woman Prime Minister*; a lecture on violence against women in Russia by Natasha Gaidarenko, founder of the Moscow Sexual Assault Recovery Center; and a panel discussion among indigenous women from the Americas on local struggles for environmental protection. In addition, American University's Washington College of Law publishes the *Journal of Gender and the Law*.

A degree in women's and gender studies may lead to a challenging career in such areas as policy-making, the arts,

health issues, social work, teaching, business, or politics. An undergraduate major or minor in women's and gender studies prepares students for graduate school or a variety of professions, including law, medicine, science and technology, public policy or public service, and education.

B.A. in Women's and Gender Studies

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and the approval of the program director.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of 39 credit hours with grades of C or better, including at least 18 credit hours at the 300-level or above
- Women's and Gender Studies majors are advised to fulfill the University Mathematics Requirement by taking 42.202 Basic Statistics

Course Requirements

- 76.125 Gender in Society 4:1 (3)
- 76.150 Women's Voices through Time 2:1 (3)
- 76.300 Feminist and Gender Theory (3)
- 76.392 Cooperative Education Field Experience (3) or 76.491 Internship in Women's and Gender Studies (3)
- 76.500 Current Issues and Research in Women's and Gender Studies (3)
- One course on women and/or gender in multicultural perspective from the following:
 - 03.215 Sex, Gender, and Culture 3:2 (3)
 - 03.342 Women and Work (3)
 - 33.400 Senior Seminar in International Relations: Women and Development (3)
 - 34.320 Topics in Jewish Culture (3) (approved topics)
 - 65.235 Women in the Third World 3:2 (3)
 - 76.350 Interpreting Gender in Culture (3) (approved topics) or another course approved by the program director

Area of Focus (12 credit hours)

- Twelve credit hours (9 of which must be at the 300 level or above) from one of three options; Arts and Humanities, Social Sciences, or an individually defined theme or issue

Note: the same course may not be used to satisfy both the women and/or gender in multicultural perspective requirement (see above) and the Area of Focus requirement.

Arts and Humanities

02.334 Contemporary American Culture (3) (approved topics)

23.310 Major Authors (3) (approved topics)

23.341 The Romantic Imagination:
Gender and Romanticism (3)

23.370 A Room of One's Own: Women and Literature (3)

23.526 Seminar in Literary Theory (approved topics)

29.220 Women in America 4:2 (3)

29.332 Contemporary Historical Studies (approved topics)

29.500 Studies in History (approved topics)

34.320 Topics in Jewish Culture (approved topics)

37.559 Colloquium on Latin America (taught in Spanish)
(approved topics)

76.350 Interpreting Gender in Culture (approved topics)
or other courses approved by the program director

Social Sciences

03.215 Sex, Gender, and Culture 3:2 (3)

03.342 Women and Work (3)

17.510 Women in Journalism (3)

19.303 Sex Roles in Economic Life (3)

19.574 Women in the Economy (3)

21.389 Gender and Schooling (3)

33.400 Senior Seminar in International Relations:
Women and Development (3)

37.356 Spanish Topics (taught in Spanish) (approved topics)

49.327 Dealing with Sexual Assault (3)

49.423 Issues in Women's Health (3)

53.407 Feminist Political Theory (3)

53.423 Advanced Studies in Public Policy:
Women and Politics (3)

57.320 Women and Mental Health (3)

57.430 Human Sexual Behavior (3)

57.545 Psychology of Sex Similarities and Differences (3)

65.205 The Family 4:2 (3)

65.235 Women in the Third World 3:2 (3)

65.352 Women, Men and Social Change (3)

65.570 Sociology of Gender and Family (3)

73.404 Gender and the Law (3)

76.350 Interpreting Gender in Culture (approved topics)
or other courses approved by the program director

Individually Defined Area of Focus

An individually defined group of four courses (12 credit hours) centered on a particular theme or issue in women's and gender studies, with approval of the program director.

Electives (9 credit hours)

- Elective courses focused on women and/or gender studies, to make a total of 39 credit hours, from a list of courses approved each semester by the program director.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill requirements for University Honors in Women's and Gender Studies, students may enroll in Honors Colloquia with topics focused on women's and/or gender studies, or may arrange an Honors supplement to a regular course or an Honors independent study in Women's and Gender Studies. All students complete a two-semester senior year Honors sequence in 76.500 Current Issues and Research in Women's and Gender Studies (with an Honors supplement) and 76.498 Honors Project in Women's and Gender Studies. The program director advises students in the University Honors Program regarding program options. See the section on the University Honors Program in this catalog for further details.

Minor in Women's and Gender Studies

- A total of 18 credit hours

Course Requirements

- 76.125 Gender in Society 4:1 (3)
- 76.300 Feminist and Gender Theory (3)
- 76.392 Cooperative Education Field Experience (3) *or* 76.491 Internship in Women's and Gender Studies (3)
- Nine credit hours of course work, 6 of which must be at the 300 level or above, from a list of women's studies courses approved by the program director

Consult the program director for each semester's approved course offerings in Women's and Gender Studies.

School of Communication

- Administration and Faculty
- Undergraduate Programs
- Graduate Programs

Dean Sanford J. Ungar

Associate Dean for Academic Affairs Glenn Hamden

Assistant Dean for Administration Patrick Martin

Academic Counselor Merry Mendelson

Graduate Programs Coordinator Lynn Walker

Full-Time Faculty

Professor Emeritus L.B. Anderson, E.L. Bliss, Jr.,
R.E. Sutton

Professor G.P. Hamden, J.A. Hendrix, J.E. Orwant,
R.A. Streitmatter, S.J. Ungar, L.W. Wolfson, J.S. Yamauchi

Associate Professor Emeritus L.M. Furber, J.C. Seigle

Associate Professor P. Aufderheide, D.D. Bonafede,

B.J. Diggs-Brown, J.C. Doolittle, J.S. Douglass,

J.A. Olmsted, C. Simpson, A. Zelle

Assistant Professor J. Baker, L. Baumgartner, R. Blair,

S. Brown, B.J. Bullert, J. Campbell, W. Cochran, K. Day,

I. Krasnow, R. Rockwell, A. Schafer, E. Scott, R.A. Stack,

L. Steinhom, S. Sutton, J. Twomey, W.S. Williams,

R.S. Zaharna

Artist in Residence J.C. Hyacinthe

Journalist in Residence E. Abel

Teaching Staff J. Lustig, R. Robertson

The goal of the School of Communication is to develop liberally educated, professionally trained communicators who are equipped intellectually and ethically to convey the issues of contemporary society.

The curriculum is carried out in the environment of Washington, D.C., the communications center of the world. The school draws heavily on the resources of the federal city for its adjunct faculty, for the material in its curriculum, and for involving students with Washington's communicators and communication facilities.

Journalism Division

The Journalism Division includes the undergraduate programs in Print and Broadcast Journalism, and the graduate program in Journalism and Public Affairs, which includes Print and Broadcast tracks in Public Policy Journalism, Economic Communication, or International Journalism. A graduate weekend program is also offered.

Public Communication Division

The Public Communication Division includes both undergraduate and graduate programs. The graduate program is also offered as a weekend program.

Visual Media Division

The Visual Media Division includes the undergraduate Visual Media program and the graduate Film and Video program. It also offers a weekend graduate program in Producing for Film and Video and the Summer Film and Video Institute.

Undergraduate Programs

A strong liberal arts background is emphasized by the school. To ensure that communication majors attain this background, a significant portion of undergraduate course work is taken outside the field of communication.

All students intending to major in communication complete two core courses during their freshman and sophomore years. During the freshman year 17.205 Understanding Mass Media is required and 17.200 Writing for Mass Communication is required during the sophomore year. Public Communication majors then enroll in 17.204 Public Relations, Visual

Media majors in 17.105 Visual Literacy, and Journalism majors in 17.320 Reporting.

Students continue with one of the four professional programs (Print or Broadcast Journalism, Public Communication, or Visual Media) in their junior year and take a series of carefully chosen skills courses. They also complete communication and media studies courses which examine the history, current issues, and future of communication and the media. The ability to write correctly and clearly is stressed in all four professional programs.

B.A. in Communication: Journalism

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.50 (on a 4.00 scale). Students should declare their major by the end of the sophomore year and no earlier than the end of the freshman year.

Students who are unable to achieve a cumulative grade point average of 2.50 and declare a major in communication are not allowed to take courses in the school after they have completed 75 hours of undergraduate credit.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Program Tracks

Broadcast Journalism or Print Journalism

Major Requirements

- A total of 36 credit hours with grades of C or better within the School of Communication, including introductory courses, professional courses, media studies courses, internships, independent study, and independent reading courses.
- Related course requirements taken outside the School of Communication, with grades of C or better
- A minimum of 84 credit hours outside the field of communication, including 65 credit hours in the liberal arts and sciences, are required for the major.

Subject to the approval of an adviser, a maximum of 12 credit hours in communication transferred from another university may be substituted for required communication courses. Transfer students majoring in Broadcast Journalism or Print Journalism are required to graduate with a total of 84 credit hours outside the field of communication.

Related Course Requirements

Students must complete the following:

- Three credit hours in American history (29.xxx)
- Three credit hours in economics (19.xxx)
- A minor or second major outside the School of Communication

Course Requirements (36 credit hours)

Core Courses

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media 4:2 (3)
- 17.320 Reporting (3)

Broadcast Journalism Track

- 17.333 Fundamentals of TV and VTR (3)
- 17.385 Broadcast Journalism I (3)
- 17.401 Legal Aspects of Communication (3)
- 17.428 Broadcast Journalism II (3)
- 17.432 Television Field Reporting (3)
- Four of the following: (including at least one marked *)
 - 17.270 How the News Media Shaped History 2:2 (3) *or*
 - 17.275 Dissident Media 4:2 (3) *or*
 - 17.280 Contemporary Media in a Global Society 3:2 (3)
- 17.392 Cooperative Education Field Experience (3) *or*
- 17.491 Senior Internship (3)
- 17.396 Selected Topics course with permission of the student's adviser (3)
- 17.433 Broadcast Delivery (3)
- 17.490 Independent Study Project in Communication (3)
- 17.503 Broadcast Operations and Management (3)
- 17.504 Journalism Ethics* (3)
- 17.505 History of Broadcast Journalism* (3)
- 17.508 The Media and Government* (3)
- 17.509 Politics and the Media* (3)
- 17.510 Women in Journalism* (3)
- 17.511 History of Documentary (3) *or*
- 17.515 Children's Television (3)
- 17.514 Censorship and the Media* (3)
- 17.516 Special Topics in Visual Media and Culture (3)
- 17.540 American Newspapers* (3)
- 17.546 Foreign Policy and the Press* (3)
- 17.547 Great Books in U.S. Journalism* (3)
- 17.596 Selected Topics course with permission of the student's adviser (3)
- 17.599 Media, Technology and Society* (3)

Print Journalism Track

- 17.322 Editorial Policies and Methods (3)
- 17.401 Legal Aspects of Communication (3)
- 17.425 Advanced Reporting (3)
- Three of the following:
 - 17.323 Computer Techniques for Communication Studies (3)
 - 17.325 Feature Article Writing (3)
 - 17.430 Basic Photography (3)
 - 17.491 Senior Internship (3) *or*
 - 17.392 Cooperative Education Field Experience (3)
- 17.502 In-Depth Journalism (3)
- 17.521 Opinion Writing (3)
- 17.545 Business and Economic Journalism (3)
- 17.596 Selected Topics course with permission of the student's adviser (3)
- Three of the following: (including at least one marked *)
 - 17.270 How the News Media Shaped History 2:2 (3) *or*
 - 17.275 Dissident Media 4:2 (3) *or*
 - 17.280 Contemporary Media in a Global Society 3:2 (3)
- 17.396 Selected Topics course with permission of the student's adviser (3)

- 17.490 Independent Study Project in Communication (3)
- 17.504 Journalism Ethics* (3)
- 17.505 History of Broadcast Journalism* (3)
- 17.508 The Media and Government* (3)
- 17.509 Politics and the Media* (3)
- 17.510 Women in Journalism* (3)
- 17.511 History of Documentary (3) *or*
17.515 Children's Television (3)
- 17.514 Censorship and the Media* (3)
- 17.540 American Newspapers*
- 17.546 Foreign Policy and the Press* (3)
- 17.547 Great Books in U.S. Journalism* (3)
- 17.596 Selected Topics course with permission of the student's adviser (3)
- 17.599 Media, Technology and Society* (3)

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the school and, upon the school's recommendation, graduate with University Honors in the major. The school's Honors coordinator advises students in the University Honors Program regarding school options. See the section on the University Honors Program in this catalog for further details.

B.A. in Communication: Public Communication

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.50 (on a 4.00 scale). Students should declare their major by the end of the sophomore year and no earlier than the end of the freshman year.

Students who are unable to achieve a cumulative grade point average of 2.50 and declare a major in communication are not allowed to take courses in the school after they have completed 75 hours of undergraduate credit.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 36 credit hours with grades of C or better within the School of Communication, including introductory courses, professional courses, media studies courses, internships, independent study, and independent reading courses.

- Related course requirements taken outside the School of Communication, with grades of C or better
- A minimum of 84 credit hours outside the field of communication, including 65 credit hours in the liberal arts and sciences, are required for the major.

Subject to the approval of an adviser, a maximum of 12 credit hours in communication transferred from another university may be substituted for required communication courses. Transfer students majoring in Public Communication are required to graduate with a total of 84 credit hours outside the field of communication.

Related Course Requirement

Students must complete the following:

- Three credit hours in American history (29.xxx)
- Three credit hours in economics (19.xxx)
- A minor or second major outside the School of Communication

Course Requirements (36 credit hours)

Core Courses

- 17.200 Writing for Mass Communication (3)
- 17.204 Public Relations (3)
- 17.205 Understanding Mass Media 4:2 (3)

Professional Courses

- 17.300 Interpersonal Communication (3)
- 17.437 Public Relations Media (3)
- 17.446 Public Relations Case Studies (3)
- 17.475 Group Communication Management (3)
- 17.480 Public Communication Research (3)

- One of the following:

- 17.505 History of Broadcast Journalism (3)
- 17.508 The Media and Government (3)
- 17.509 Politics and the Media (3)
- 17.510 Women in Journalism (3)
- 17.514 Censorship and the Media (3)
- 17.533 Ethical Persuasion (3)
- 17.534 Race, Gender, and the Media (3)
- 17.540 American Newspapers (3)
- 17.546 Foreign Policy and the Press (3)
- 17.547 Great Books in U.S. Journalism (3)
- 17.599 Media, Technology and Society (3)

- Three of the following:

- 17.310 Public Speaking (3)
- 17.323 Computer Techniques for Communication Studies (3)
- 17.325 Feature Article Writing (3)
- 17.401 Legal Aspects of Communication (3)
- 17.430 Basic Photography (3)
- 17.470 Organizational Communication (3)
- 17.472 Nonverbal Communication (3)
- 17.491 Senior Internship (3) *or*
17.392 Cooperative Education Field Experience (3)

- 17.521 Opinion Writing (3)
- 17.532 Publication Layout and Design (3)

One Communication and Media Studies course from the following may be included:

- 17.270 How the News Media Shaped History 2:2 (3)
- 17.502 In-Depth Journalism (3)
- 17.503 Broadcast Operations and Management (3)
- 17.508 The Media and Government (3)
- 17.509 Politics and the Media (3)
- 17.511 History of Documentary (3)
- 17.513 Producing Film and Video (3)
- 17.514 Censorship and Media (3)
- 17.515 Children's Television (3)
- 17.516 Special Topics in Visual Media and Culture (3)
- 17.517 Cross Cultural Cinema (3)
- 17.533 Ethical Persuasion (3)
- 17.534 Race, Gender, and the Media (3)
- 17.535 Special Topics in News Media (3)
- 17.538 Contemporary Media Issues (3)
- 17.540 American Newspapers
- 17.545 Business and Economic Journalism (3)
- 17.546 Foreign Policy and the Press (3)
- 17.558 History of Motion Pictures I (3)
- 17.559 History of Motion Pictures II (3)
- 17.596 Selected Topics course with permission of the student's adviser (3)
- 17.599 Media, Technology and Society (3)

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the school and, upon the school's recommendation, graduate with University Honors in the major. The school's Honors coordinator advises students in the University Honors Program regarding school options. See the section on the University Honors Program in this catalog for further details.

B.A. in Communication: Visual Media

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.50 (on a 4.00 scale). Students should declare their major by the end of the sophomore year and no earlier than the end of the freshman year.

Students who are unable to achieve a cumulative grade point average of 2.50 and declare a major in communication are not allowed to take courses in the school after they have completed 75 hours of undergraduate credit.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 39–42 credit hours with grades of C or better within the School of Communication, including introductory courses, professional courses, media studies courses, internships, independent study, and independent reading courses.
 - Related course requirements taken outside the School of Communication, with grades of C or better
- Subject to the approval of an adviser, a maximum of 12 credit hours in communication transferred from another university may be substituted for required communication courses.

Related Course Requirement

Students must complete the following:

- Three credit hours in American history (29.xxx)
- Three credit hours in economics (19.xxx)
- A minor or second major outside the School of Communication

Course Requirements (39–42 credit hours)

Core (9 credit hours)

- 17.105 Visual Literacy 1:1 (3)
- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media 4:2 (3)

Basic Courses (9 credit hours)

- 17.430 Basic Photography (3)
- 17.431 Basic Visual Media Production (3)
- 17.482 Writing for Visual Media (3)

Professional Courses (12–15 credit hours)

Intermediate Courses (6–9 credit hours)

- Two or three course from the following:
 - 17.434 Location Film and Video Production (3)
 - 17.435 Introduction to Studio Television (3)
 - 17.519 Basic Digital Imaging (3)
 - 17.523 Intermediate Photography:
 - Photojournalism (3)
 - Fine Arts Photography (3)

Advanced Courses (6 credit hours)

- Two courses from the following:
 - 17.456 Film Production and Direction (3)
 - 17.464 Directing for Camera (3)
 - 17.486 Video Production and Direction (3)
 - 17.561 Advanced Writing for Film (3)
 - 17.562 Advanced Writing for Television (3)

Note: 17.491 Senior Internship, 17.392 Cooperative Education or a Visual Media Studies course (see below) may be substituted for an advanced skills course with permission of the adviser.

Visual Media Studies (9 credit hours)

- Two or three course from the following:
 - 17.511 History of Documentary (3)
 - 17.513 Producing Film and Video (3)
 - 17.514 Censorship and Media (3)
 - 17.515 Children's Television (3)
 - 17.516 Special Topics in Visual Media and Culture (3)

- 17.517 Cross Cultural Cinema (3)
- 17.527 The Image: From Camera to Computer (3)
- 17.558 History of Motion Pictures I (3)
- 17.559 History of Motion Pictures II (3)
- 17.596 Selected Topics course with permission of the student's adviser (3)
- 17.599 Media, Technology and Society (3)
- 23.375 Film and Literature (3)
- 23.376 National Cinema (3)
- 23.377 Popular Film Genres (3)
- 23.378 Major Filmmakers (3)
- 23.380 Independent Filmmakers (3)

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the school and, upon the school's recommendation, graduate with University Honors in the major. The school's Honors coordinator advises students in the University Honors Program regarding school options. See the section on the University Honors Program in this catalog for further details.

B.A. in Communication, Legal Institutions, Economics, and Government (CLEG)

An interdisciplinary major in Communication, Legal Institutions, Economics, and Government is available. Consult the School of Public Affairs chapter of this publication.

B.A. in Foreign Language and Communication Media

Students are admitted to either the School of Communication or to the Department of Language and Foreign Studies of the College of Arts and Sciences.

Program tracks are: French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media. Refer to the Interdisciplinary Degree Programs chapter in this catalog for information on major and course requirements.

Washington Semester in Journalism

This special one semester undergraduate program explores journalism as it is practiced in Washington, D.C. The program studies the people, institutions and issues of Washington journalism with guest speakers, field trips, and lectures, plus an internship and an elective course selected from regular offerings of the university. The program is open to students from colleges and universities across the country.

Admission to the Program

Requirements for admission to the program are: (1) a minimum grade point average of 2.50 (on a 4.00 scale); (2) either a journalism major or a liberal-arts major with some evidence of interest in journalism; and (3) at least second-semester

sophomore standing at the time of participation. Selection is competitive.

Note: This program is not open to American University communication majors.

Requirements

- 17.450 Washington Journalism Semester Seminar I (4)
- 17.451 Washington Journalism Semester Seminar II (4)
- 17.452 Washington Journalism Semester Internship (4)
- One course from the regular university course offerings

Minor in Communication

Designed for users and consumers of mass media, rather than for practitioners. Students wishing to minor in Communication should consult the academic counselor in the School of Communication.

Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media 4:2 (3)
- Two of the following:
 - 17.204 Public Relations (3)
 - 17.310 Public Speaking (3)
 - 17.320 Reporting (3)
 - 17.322 Editorial Policies and Methods (3)
 - 17.325 Feature Article Writing (3)
 - 17.430 Basic Photography (3)
 - 17.431 Basic Visual Media Production (3)
 - 17.435 Introduction to Studio Television (3)
 - 17.470 Organizational Communication (3)
 - 17.472 Nonverbal Communication (3)
 - 17.475 Group Communication Management (3)
 - 17.521 Opinion Writing (3)
 - 17.532 Publication Layout and Design (3)
- Two of the following:
 - 17.401 Legal Aspects of Communication (3)
 - 17.503 Broadcast Operations and Management (3)
 - 17.508 The Media and Government (3)
 - 17.509 Politics and the Media (3)
 - 17.511 History of Documentary (3)
 - 17.513 Producing Film and Video (3)
 - 17.514 Censorship and Media (3)
 - 17.515 Children's Television (3)
 - 17.517 Cross Cultural Cinema (3)
 - 17.527 The Image: From Camera to Computer (3)
 - 17.538 Contemporary Media Issues (3)
 - 17.540 American Newspapers (3)
 - 17.545 Business and Economic Journalism (3)
 - 17.558 History of Motion Pictures I (3)
 - 17.559 History of Motion Pictures II (3)
 - 17.596 Selected Topics course with permission of the student's adviser (3)
 - 17.599 Media, Technology and Society (3)

Graduate Programs

M.A. in Communication: Journalism and Public Affairs

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Previous professional or campus experience in communication is useful but not required. However, all applicants are required to show evidence of professional commitment and career direction related to the specialization and track they choose.

Admission is for full-time students and for the fall semester only. The student is expected to complete this 30-credit hour program within a ten-month period. The degree program is also available in a part-time weekend format. The weekend program also begins in the fall semester and takes twenty months to complete.

An application is submitted to the Graduate Journalism Admissions Committee which includes a 1,000-word essay on the applicant's commitment to pursuing graduate study in the program. If available, samples of published professional or college news writing, scripts or tapes should also be submitted. In addition, the university general application and two letters of recommendation must be filed with the Office of Graduate Admissions.

A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

Degree Requirements

- A total of 30 credit hours of approved graduate work
- Most students are required to enroll in a preliminary course in news writing and reporting, 17.624 Principles and Practice of Journalism. Students must receive a grade of B or better in this class before they are admitted to the program. This intensive course is offered during the summer prior to the fall semester and does not count toward the 30 credit hours required for the degree.
- Continuous full-time enrollment with a grade point average of 3.00 maintained during all work toward the degree
- One comprehensive examination, 17.001 General Communication and Journalism

Specializations and Tracks

Students choose one of three professional specializations: Public Policy Journalism, International Journalism, or Economic Communication. Each may be taken in either a print or broadcast journalism track.

Course Requirements

Public Policy Journalism

Core Courses (9 credit hours)

- 17.601 Legal Aspects of Communication (3)
- 17.710 Seminar in Public Affairs (3) (with a grade of B or better)
- 17.724 Reporting of Public Affairs (3)

Elective Courses (12 credit hours)

- Four elective courses as approved by the program director
- One or two courses outside the School of Communication in an area related to public affairs may be substituted for journalism electives with permission of the program director. Possible areas include political science, public administration, history, economics, the range of social sciences, and international relations.

Broadcast Track (9 credit hours)

- 17.632 Television Field Reporting (3)
- 17.721 Broadcast News I (3)
- 17.722 Broadcast News II (3) (with a grade of B or better)

Print Track (9 credit hours)

- 17.621 Advanced Editing (3)
- 17.636 Washington Reporting (3)
- 17.720 Seminar in Journalism (3) (with a grade of B or better)

International Journalism

Core Courses (12 credit hours)

- 17.546 Foreign Policy and the Press (3)
- 17.601 Legal Aspects of Communication (3)
- 17.710 Seminar in Public Affairs (3) (with international emphasis and a grade of B or better)
- 17.724 Reporting of Public Affairs (3) (with international emphasis)

Broadcast Track (18 credit hours)

- 17.632 Television Field Reporting (3)
- 17.721 Broadcast News I (3)
- 17.722 Broadcast News II (3) (with international emphasis and a grade of B or better)
- Three courses (9 credit hours) from the following:
 - one or two international relations courses outside the School of Communication
 - one or two School of Communication (17.xxx) electives

Print Track (18 credit hours)

- 17.621 Advanced Editing (3)
- 17.636 Washington Reporting (3) (with international emphasis)
- 17.720 Seminar in Journalism (3) (with a grade of B or better)

- Three courses (9 credit hours) from the following:
one or two international relations courses outside the School of Communication
one or two School of Communication (17.xxx) electives

Economic Communication*Core Courses (9 credit hours)*

- 17.601 Legal Aspects of Communication (3)
- 17.710 Seminar in Public Affairs (3) (with emphasis on economic and business coverage and a grade of B or better)
- 17.724 Reporting of Public Affairs (3) (with emphasis on economic and business coverage)

Economics Courses (9 credit hours)

- Nine credit hours from the following:
19.500 Price Theory (3)
19.501 Income Theory (3)
19.507 American Economic Development (3)
19.522 Econometrics (3)
19.546 Industrial Organization (3)
19.571 Labor Economics: Theory (3)
19.579 Energy Economics, Resources, and the Environment (3)
19.603 Introduction to Economic Theory (3)

Broadcast Track (12 credit hours)

- 17.632 Television Field Reporting (3)
- 17.721 Broadcast News I (3)
- 17.722 Broadcast News II (3) (with a grade of B or better)
- One School of Communication (17.xxx) elective

Print Track (12 credit hours)

- 17.545 Business and Economic Journalism (3) (with a grade of B or better)
- One economics or business elective (3)
- Two School of Communication (17.xxx) electives

Note: Students who have earned a B or better in a news-media law course within five years of enrollment may petition to be exempted from 17.601 Legal Aspects of Communication. International students are normally exempted from this course. Students with extensive professional editing experience may petition to be exempted from 17.621 Advanced Editing.

Special Opportunities

The program draws heavily on the resources of Washington, D.C. for both field work and classroom study. In addition, the many professional news organizations in the Washington area provide excellent opportunities for internships and cooperative education field experience. Special seminars and presentations, including the school's American Forum, enable students to meet major public figures and discuss issues of national and international concern.

Weekend Graduate Program in Communication: Journalism and Public Affairs

The weekend M.A. program in journalism and public affairs is for professionals whose schedules make Saturday classes a preferable alternative to full-time study. Students in

this program follow a planned curriculum in public policy journalism, moving through the program as members of an intact group to complete ten courses in either the print or radio and television journalism tracks.

Admission requirements are the same as for the full-time program, and for the fall semester only. The student is expected to complete the 30-credit hour program within a twenty-month period. Most students are required to enroll in a preliminary noncredit course in news writing and reporting, 17.050 Principles and Practice of Journalism. Students must receive a grade of B or better in this class before they are admitted to the program.

For more information, call the Special Programs Advising Center at (202) 885-2500.

M.A. in Communication: Public Communication**Admission to the Program**

Applicants must meet the minimum university requirements for graduate study. Previous academic or professional work in public communication is not required, but all applicants must demonstrate a serious commitment to a career in this field. The ability to speak and write English well is essential.

Admission is open to both full-time and part-time students and is for the fall semester only. Part-time students are expected to take a minimum of two courses each semester and complete their program in two years. Full-time students are generally expected to complete the program in ten months. The degree program is also available in a part-time weekend format beginning in the fall semester which takes 20 months to complete.

An application is submitted to the Graduate Public Communication Admissions Committee which includes a 1,000-word essay on the applicant's commitment to pursuing graduate study in the program. In addition, the university general application and two letters of recommendation must be filed with the Office of Graduate Admissions. Interviews are not required, but may be recommended by the school.

A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

Degree Requirements

- A total of 30 credit hours of approved graduate work
- A graduate project is required of all students. The project work must be focused in a particular communication area, such as: Arts Communication; Corporate Public Relations; Government and Political Communication; International Public Relations; or Public Interest Communication. The project should be selected to provide an important credential for future employment as well as a focus for learning. It should reflect the student's career direction within the broad field of public communication. Students must receive a grade of B or better on the project. This project, which fulfills the university research requirement, is in lieu of a thesis.

- One comprehensive examination, 17.003 Public Communication

Course Requirements

- 17.640 Public Communication Principles (3)
- 17.642 Public Communication Management (3)
- 17.644 Public Communication Writing (3)
- 17.646 Public Communication Production (3)
- 17.735 Communication Theory (3) (with a grade of B or better)
- 17.738 Research Methods in Communication (3) (with a grade of B or better)
- 17.744 Public Communication Seminar (3) (with a grade of B or better)
- Nine credit hours in elective courses:

Students may take an internship as one of the elective courses. Other elective courses may be taken in communication or in other fields such as sociology, business, performing arts, education, government, justice, international service, psychology, anthropology, art history, literature, economics, or statistics.

Note: Students interested in corporate public relations should note that there are limited options in business administration electives. Please consult your adviser.

Special Opportunities

The program draws heavily on the resources of Washington, D.C. for both field work and classroom study. In addition, the many public interest organizations, trade associations, government agencies, and public relations firms in the Washington area provide excellent opportunities for internships and cooperative education field experience. Special seminars and presentations, including the school's American Forum, enable students to meet major public figures and discuss issues of national and international concern.

Weekend Graduate Program in Communication: Public Communication

The School of Communication offers a weekend M.A. program in Public Communication. With its emphasis on public relations, this program is for experienced professionals who find their job responsibilities expanding to include new technologies, as well as the coordination and dissemination of persuasive and informational materials. For more information, call the Special Programs Advising Center at (202) 885-2500.

M.A. in Film and Video

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record General Examination (Verbal, Quantitative, and Analytical). Previous exposure to film study, film and video production or script writing is not required, although all applicants are required to show evidence of professional commitment and career direction related to their program of study.

Admission is not limited to full-time students, however students must be available to take most of their course work during the day. Students will normally be expected to complete the 33-credit hour program within 24 months.

An application is submitted to the Graduate Film and Video Admissions Committee which includes a 1,000-word essay on the applicant's commitment to pursuing graduate study in the program. In addition, the university general application and two letters of recommendation must be filed with the Office of Graduate Admissions.

A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

Degree Requirements

- A total of 33 credit hours of approved graduate work
Students without experience in film or video production are required to take 17.631 Basic Visual Media Production prior to or at the beginning of the regular program. This course does not count toward the 33 credit hours required for the degree.
- Thesis option: Six credit hours of 17.797 Master's Thesis Seminar
Non-thesis option: for students producing an original creative work in the areas of scriptwriting or production, 3 credit hours of 17.513 Producing Film and Video and 3 credit hours of 17.702 Master's Non-Thesis Project Seminar
Grades of B or better are required for all courses taken for the thesis or nonthesis option.
- One comprehensive examination, 17.004 Film and Video

Course Requirements

- Courses are selected from the following areas with emphasis determined by the student's interest: film production; video production; film theory, history, and criticism; and script writing.
While a student may emphasize one of these areas in the design of an individual program, the program must include courses from all four areas. A student's program may also include courses in related areas such as performing arts and photography.

Special Opportunities

The program draws heavily on the resources of Washington, D.C. for both field work and classroom study. In addition, the many media production organizations in the Washington area provide excellent opportunities for internships and cooperative education field experience. Special seminars and presentations, including the school's American Forum and the Media Center Premiere Presentations, enable students to meet major producers and media artists to screen and discuss their work.

M.A. in Communication: Producing for Film and Video (Weekend Program)

Admission to the Program

The School of Communication offers a weekend part-time graduate program leading to a Master of Arts degree in Producing for Film and Video. The program is designed for working adults who want to pursue careers in producing for film, video, television, and multi-media.

Students begin the program in May by taking Summer Film and Video Institute courses in film, video, or multi-media production. Student cohort groups follow a planned curriculum, taking one course every seven weeks (two courses each semester) on Saturdays for a total of 10 courses. The 30-credit hour program is completed in 21 months.

Applicants must meet the minimum university requirements for graduate study. Previous academic or professional experience in film or video is not required, but all applicants must demonstrate a serious commitment to a career in this field. The deadline for application is April 1. For more information, students should call the Special Programs Advising Center at (202) 885-2500. Potential applicants will be sent a packet under separate cover from the university's admissions office. The packet contains additional information relating to graduate study generally at American University, two reference forms, and a separate application form which includes a request for a 1,000 word essay on the applicant's reasons for wanting to pursue graduate study in the program.

Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- A grade point average of 3.00 maintained during all work toward the degree
- Continuous registration
- One comprehensive examination, 17.005 Producing Film and Video

Course Requirements

- One of the following:
 - 17.570 Summer Film and Video Institute :
 - Film Production (3)
 - Video Production (3)
 - Documentary Production (3)
 - Dramatic Production (3)
- 17.513 Producing Film and Video (3)
- 17.518 Fundamentals of Digital Media (3)
- 17.530 Broadcast Operations and Management (3)
- 17.550 Financing and Marketing Independent Productions (3)
- 17.570 Summer Film and Video Institute:
 - Production Planning and Management (3)
- 17.601 Legal Aspects of Communication (3)
- 17.671 The Media Enterprise I: Establishing the Enterprise (3)
- 17.671 The Media Enterprise II: Managing the Enterprise (3)
- 17.682 Writing for Visual Media (3)

Kogod College of Business Administration

- Administration and Faculty
- Undergraduate Programs
- Graduate Programs

Acting Dean Stevan R. Holmberg

Associate Dean for Graduate Programs William H. Delone

Associate Dean for Undergraduate Programs

Richard L. Apperson

Assistant Dean for Administration Firouz Bahrapour

Director of Graduate Programs August Schomburg

Director of Graduate Admissions and Financial Aid

Judith Sugarman

Academic Counselors (Undergraduate)

Arthur Harris, Uma Saini

Academic Counselor (Graduate) Amy Alexander

Full-Time Faculty

University Professor H.K. Baker

Professor Emeritus/a C.I. Bartfeld, L.L. Karadibil, J. Owens, W.H. Peters, M. Sekdin, H.E. Striner (University Professor Emeritus)

Professor D.R. Brenner, P. Chinloy, T.V. DiBacco, R.B. Edelman, G.T. Ford, H. Glazer, S.R. Holmberg, D.M. Khambata, D.C. Martin, M.B. Mazis, M.P. Sampson, J.H. Sood, F.D. Tuggle, E.A. Wasil

Associate Professor Emeritus R. Einhorn, S.H. Ivison, Jr., J. Kokus, Jr, P.S. Shen, R.M. Springer, Jr.

Associate Professor A. Adhikari, N.A. Bagranoff, J.D. Benjamin, B.J. Bird, G.F. Bulmash, J.R. Butts, E. Carmel, W.H. DeLone, F.L. DuBois, R.H. Gorman, M. Hastak, D.C. Jacobs, P.J. Jacoby, P.C. Kumar, R.L. Losey, M.A. Mass, A. Mitra, T. Mroczkowski, T.J. O'Connor, A.C. Perry, V. Selman, J.L. Swasy, R.J. Volkema, D.T. Williamson

Assistant Professor Emeritus J.F. Magnotti

Assistant Professor J.M. Bailey, L. Betancourt, K.A. Getz, R.G. Linowes, B. H. Lubich, J.A. McCarty, J. Qian, L.A. Riddick, A.C. Riley, C.L. Sayers, A. Schomburg

Instructor D. Adair, A.I. Duru, B.C. Foltos, S. Mansi, S.P. Putterman, N.C. Shaw

Mission and Objectives

As a professional school of business administration, the Kogod College provides an educational experience of the highest quality for its students; conducts scholarship of significance for both academic and professional audiences; and provides service to academic, professional, and business communities. In all these activities the Kogod College, taking advantage of its location in a world capital, emphasizes the interrelationships among business organizations, international and domestic institutions, and governments.

Through its pedagogy and research, the Kogod College:

- Prepares individuals to identify, analyze, and understand the interrelationships among business organizations, international and domestic institutions, and governments;
- Develops individuals who can lead organizations toward economic success and social responsibility in the global marketplace of the twenty-first century;
- Prepares individuals to integrate information resources and technologies to enable them to anticipate and manage change;
- Advances knowledge of issues and practices affecting business organizations, international and domestic institutions, and governments;
- Enhances its reputation for high quality scholarship germane to academic, professional, business, and government audiences; and
- Emphasizes, as a pervasive element of all programs and activities, ethical, professional, and socially responsible business practices.

Accreditation

Both the business and accounting programs of the Kogod College of Business Administration are accredited by the American Assembly of Collegiate Schools of Business (AACSB).

Departments and Special Centers

The college is made up of five departments: Accounting (including a Taxation program), Finance and Real Estate, Management, International Business, and Marketing. The International Business Department acts as a matrix department, providing opportunities for professors from other teaching units and other experts in the field to participate in the programs of the college.

The Center for Marketing Policy Research sponsors research and disseminates information on the effects of government policy on the marketing of goods and services.

The Management Department's Family Business Forum is a membership organization comprised of leading Washington, D.C. area family businesses. The forum provides a variety of educational programs which are dedicated to actively assisting families in business to address and resolve their succession, management, ownership and strategic issues.

Undergraduate Programs

Bachelor of Science in Business Administration (B.S.B.A.)

The Business Administration program has a liberal arts based curriculum that provides in the business core a broad knowledge of business functions while emphasizing the global business environment. In addition to the business core, majors must complete an approved area of specialization. The objectives of the B.S.B.A. program are:

- To develop in each student the ability to write and speak effectively, an appreciation of the arts and humanities, an awareness of social and political problems as well as the history and international and intercultural traditions that shape our world, a background in the natural sciences, and an understanding of mathematics and statistics and their application to business and economic problems.
- To develop an understanding of the American and international economic systems and the important relationship between business and government.
- To develop a global perspective on business operations.
- To provide an understanding of the organizational dynamics of the business enterprise and interpersonal skills necessary for effective management.
- To provide a background in the concepts, processes, and institutions of the production and marketing of goods and services and the financing of business organizations.
- To provide a foundation in the concepts and application of accounting, quantitative methods, and information technology.
- To stimulate the student's intellectual curiosity, to develop the ability to think creatively and reason logically, and to encourage the consideration of demographic diversity and ethical principles.

Admission to the Program

Freshman applicants should have demonstrated above average performance in their college preparatory courses in secondary school. Scores on the CEEB Scholastic Aptitude Test

Honorary Societies

The college recognizes both academic and professional achievement by students and alumni through membership in national honorary societies.

Beta Gamma Sigma, founded in 1913, is the honor society for scholars in the field of business and management. It is linked with the American Assembly of Collegiate Schools of Business and members elected to the society attain the highest national honor for students in business or management.

The honor society for scholars in international business, Epsilon Chi Omicron, seeks to enhance the quality of education in international business and to provide its members—junior and senior students and recent graduates—the opportunity to learn from each other.

should indicate that the applicant has the potential for success in a rigorous university degree program. Due to the quantitative emphasis of the business administration curriculum, it is strongly recommended that applicants take the Mathematics Achievement Test for placement purposes.

In addition to the requirements for transfer admission described in the Undergraduate Study chapter of this catalog, transfer applicants to Kogod College from other collegiate institutions should have maintained a minimum grade point average of 2.75 (on a 4.00 scale). This standard also applies to students transferring to Kogod College from the nondegree program at American University.

All B.S.B.A. transfer students are required to take 10.458 Business Policy and Strategy and at least 18 upper-level credits towards their major requirements. Transfer credits for upper-division business courses are subject to validation by the appropriate department chair. Transfer credit may be conditional on successful completion of a more advanced course at American University.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Please refer to the General Education Program chapter in this catalog. Kogod College students should fulfill General Education requirements before beginning the junior year of study.

Note: Curricular Area 4 may be fulfilled by 19.100 Macroeconomics and 19.200 Microeconomics.

Major Requirements

- A total of 120 credit hours with a cumulative grade point average of 2.00 or higher
- Non-business prerequisite and required courses: 60 credit hours

Accreditation standards for business programs require that students complete a minimum of 60 credit hours of course work outside the Kogod College.

Note: 12.200 Global Marketplace 3:2 and 13.200 Personal Finance and Financial Institutions 4:2 are considered business courses and may not count toward the non-business course requirement even if they are taken for General Education credit.

- Business core courses: 36 credit hours with grades of C or better (pass/fail grades are not permitted)
- Area of Specialization: a minimum of 12 credit hours with grades of C or better (pass/fail grades are not permitted)
- Free electives: 12 credit hours

Note: Students may take more than 60 credit hours of business courses, as long as they meet the minimum of 60 credit hours of non-business course work.

Declaration of Area of Specialization

It is recommended that the area of specialization be declared no later than the second semester of the junior year. A student's area of specialization must be approved by the Kogod College Office of Undergraduate Programs. The minimum standards of performance that must be achieved prior to approval are:

- A total cumulative grade point average of 2.00 (on a 4.00 scale)
- A grade point average of 2.00 in 41.211 Applied Calculus I and 42.202 Basic Statistics
- A minimum grade of C in 19.100 Macroeconomics and 19.200 Microeconomics
- Approval of a specialization in Accounting requires a minimum grade point average of 2.50 for 14.240 Principles of Financial Accounting and 14.241 Principles of Managerial Accounting

Course Requirements

Students are responsible for fulfilling university and college degree requirements following a prescribed sequence. The Kogod College Office of Undergraduate Programs must be consulted for counseling and advice.

University Requirements

- 23.100 or 23.102 College Writing (3)
- 23.101 or 23.103 College Writing Seminar (3)
- 41.15x Finite Mathematics (3) or by examination (See the University Mathematics Requirement in this catalog.)

Non-business Prerequisites

- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)

- 41.211 Applied Calculus I (4) or
- 41.221 Calculus I (4) (for students with a stronger background in mathematics)
Students needing to strengthen their quantitative skills should begin with 41.157 Finite Mathematics:Business.
- 42.202 Basic Statistics (4)

Non-business Requirements

- All business students must complete 6 credit hours in foreign language or approved international or cross-cultural courses from the following:

33.161 Civilizations of Asia (3)

33.xxx School of International Service (SIS) courses at the 200-level and above

36.xxx/37.xxx courses from the Language and Foreign Studies department of the College of Arts and Sciences

Curricular Area 3 (International and Intercultural Experience) courses may be used to meet this requirement, but the 6 credits must be in addition to those taken to fulfill the General Education Requirement

World Capitals Program courses (if not used to fulfill another requirement), international cooperative education, or other approved study abroad programs

Note: All SIS (33.xxx) courses except for courses taken for General Education credit must be approved by the SIS Undergraduate Office

Business Core Courses (12 required courses)

C = Computer-intensive courses; these courses include assignments using computer software packages that account for a significant part of the course grade.

Business students may use the Kogod/Economics Computer Lab as well as other computer labs on campus. Student are also encouraged to purchase their own computers. Hardware and software requirements can be found in the American University/Kogod College computer acquisition guidelines.

W = Written communication emphasis; these courses emphasize development of business writing skills and include numerous written assignments that account for a significant part of the course grade.

O = Oral communication emphasis; these courses emphasize development of oral communication skills and include oral reports that account for a significant part of the course grade.

All business core courses cover relevant international topics and issues.

- 10.252 Business, Government and Society (W) (O) (3)
- 10.352 Introduction to Management Information Systems (C) (3)
- 10.353 Principles of Organizational Theory, Behavior and Management (W) (3)
- 10.355 Production/Operations Management (C) (3)
- 10.458 Business Policy and Strategy (W) (O) (3)
- 11.300 Principles of Marketing (W) (3)
- 12.300 Fundamentals of International Business (W) (3)

- 13.365 Corporate Finance (C) (3)
- 14.201 Legal Issues in Business (3)
- 14.240 Principles of Financial Accounting (3)
- 14.241 Principles of Managerial Accounting (C) (3)
- One upper-level international business (12.xxx) course (3)
An international business course related to the student's area of specialization is recommended. The selected course may not also count toward the area of specialization requirement, except for students who complete two areas of specialization

Area of Specialization

Business majors must select a specialization from the approved specializations listed below, or design a custom specialization with the approval of their Kogod adviser. Specializations must include a minimum of 12 credit hours. Students who choose a second area of specialization must take a minimum of 12 credit hours in the second specialization.

Accounting (15 credit hours)

- 14.340 Intermediate Financial Accounting I (3)
- 14.341 Intermediate Financial Accounting II (3)
- 14.345 Cost Accounting (3)
- 14.350 Introduction to Accounting Information Systems (3)
- 14.443 Taxation I (3)

Enterprise Management (12 credit hours)

- 10.381 Managing Human Resources (3)
- 10.386 Entrepreneurship (3)
- 10.387 Management and Leadership Development (3)
- 10.454 Managing Information for Business Decision Making (3)

Finance (12 credit hours)

- 13.470 Seminar in Finance (3)
- Any three of the following:
13.464 Financial Markets and Institutions (3)
13.465 Derivative Securities (3)
13.468 Advanced Financial Management (3)
13.469 Investment Analysis (3)
13.474 Real Estate Finance and Economics (3)

Note: Students with a Finance specialization should also take 12.302 International Finance as their second international business course requirement (see business core requirement above)

Human Resource Management (12 credit hours)

- 10.381 Managing Human Resources (3)
- 10.384 Managing Performance (3)
- 10.481 Managing Compensation Systems (3)
- One from the following:
10.382 Employee Involvement and Labor Policy (3)
10.386 Entrepreneurship (3)
10.387 Management and Leadership Development (3)
10.585 Managing Diversity: Recruiting and Selecting the Workforce (3)
12.507 International Human Resource Management (3)

International Finance (12 credit hours)

- 12.302 International Finance (3)
- 12.404 Multinational Accounting Issues (3)
- 13.464 Financial Markets and Institutions (3)
- 13.468 Financial Decision Making (3)

International Management (12 credit hours)

- 10.386 Entrepreneurship (3)
- 10.454 Managing Information for Business Decision Making (3)
- 12.401 Cultural Environment of International Business (3)
- 12.507 International Human Resource Management (3)

International Marketing (12 credit hours)

- 11.301 Consumer Behavior (W) (3)
- 11.302 Marketing Research (C) (3)
- 12.301 International Marketing (3)
- 12.408 Export/Import Management (3)

Marketing (12 credit hours)

- 11.301 Consumer Behavior (3)
- 11.302 Marketing Research (3)
- Two from the following:
11.402 Marketing Strategy (3)
11.411 Advertising and Marketing Communications Management (3)
11.412 Advertising and Promotion Campaigns (3)
11.421 Sales Management (3)
11.436 Retailing Management (3)

Note: Students with a Marketing specialization should also take 12.301 International Marketing as their second international business course requirement (see business core requirement above)

Computer Information Systems (12 credit hours)

- 10.454 Managing Information in Business Decision Making (3)
- 64.234 Programming Concepts I (3)
- 64.455 Introduction to Systems Analysis (3)
- One from the following:
64.315 Human Factors in Computer Information Systems (3)
64.440 Database Management in Computer Information Systems (3)
64.460 Applied Systems Design (3)

Economics (15 credit hours)

- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- Three additional upper-level (.300 or above) economics (19.xxx) courses

International Communication (12 credit hours)

- 33.140 Cross-Cultural Communication 3:1 (3)
- 33.340 Foundations of International Communication (3)
- 33.341 Intercultural Communication (3)
- 33.349 Selected Topics in International Communication (3)

International Development (12 credit hours)

- Four courses from the following:
 - 19.110 The Global Majority 3:1 (3)
 - 19.307 Political Economy of Economic Development (3)
 - 19.308 History of Economic Development (3)
 - 23.150 Third World Literature 3:1 (3)
 - 29.120 Imperialism and Revolution 3:1 (3)
 - 33.110 Beyond Sovereignty 3:1 (3)
 - 33.337 International Development (3)
 - 33.537 Special Topics in Development Management (3)
 - 53.235 Dynamics of Political Change 3:2 (3)
 - 65.110 Views from the Third World 3:1 (3)
 - 65.285 Education for International Development 3:2 (3)

International Economics/International Economic Policy (12 credit hours)

- Four courses from the following:
 - 19.311 International Economics (3)
 - 19.371 International Economics: Trade (3)
 - 19.372 International Economics: Finance (3)
 - 33.215 Competition in an Interdependent World 3:2 (3)
 - 33.389 Special Topics in Policy Analysis (3)
 - 33.465 Contemporary International Trade and Investment Policies (3)
 - 33.466 Contemporary International Monetary, Finance and Energy Policies (3)
 - 33.504 Multinational Corporations (3)

Regional Area Specialization (12 credit hours)

- Twelve credit hours from a B.A. in International Studies regional area specialization (see the School of International Service chapter in this catalog). Regional areas include: Africa, the Americas, Asia, Europe, the Middle East, and Russia and Central Eurasia.

Note: All SIS (33.xxx) courses except for courses taken for General Education credit must be approved by the SIS Undergraduate Office.

Double Majors

In lieu of an area of specialization, students may take a double major in Business Administration and either Computer Information Systems or Economics.

Computer Information Systems (36 credit hours)

- 64.234 Programming Concepts I (3)
- 64.235 Programming Concepts II (3)
- 64.315 Human Factors in Computer Information Systems (3)
- 64.325 Computer Hardware and Systems Software (3)
- 64.440 Database Management in Computer Information Systems (3)
- 64.455 Introduction to Systems Analysis (3)
- 64.460 Applied Systems Design (3)
- 64.465 Designing and Writing Computer Documentation (3)
- 64.480 Senior Seminar in Computer Information Systems (3)
- 64.485 Senior Workshop in Computer Information Systems (3)
- Two computer information systems electives (64.xxx), excluding 64.392 Cooperative Education Field Experience

Economics (43 credit hours)

- 19.100 Macroeconomics 4:1 (3)*
- 19.200 Microeconomics 4:2 (3)*
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 42.202 Basic Statistics (4)*
- * These courses count toward both the Economics major and the non-business prerequisite requirements for the Business Administration major.
- Six additional economics (19.xxx) courses at the 300-level or above
- Related field: three courses from the related course requirement of the B.A. in Economics; field may be business administration courses (see Department of Economics section).

Student Status

The Kogod College of Business Administration has two undergraduate classifications: lower-division (corresponding to the freshman and sophomore years), and upper-division (corresponding to the junior and senior years). In the lower-division, students complete university requirements in college writing and mathematics, the university General Education program, nonbusiness prerequisites to the upper-division courses (economics and statistics), and required courses 10.252 Business, Government and Society, 14.240 Principles of Financial Accounting, 14.241 Principles of Managerial Accounting, and 14.201 Legal Issues in Business. A student must earn a minimum of 24 credits before registering for lower-division business courses.

The upper-division is devoted primarily to the completion of the professional courses in business. To qualify for admission to the upper-division, students must successfully complete a minimum of 54 credits of course work, including all of the lower-division degree requirements in college writing, mathematics, economics, statistics, business and government, business law, and accounting. No upper-level professional courses may be taken before attainment of upper-division status. Exceptions may be approved by the associate dean for undergraduate programs.

Cooperative Education Program

Qualified students majoring in business are encouraged to participate in the Cooperative Education Program which provides field experience in jobs related to their academic programs and career goals. The program enables students to make career decisions and prepare for entry into the professional job market while earning degree credit in part-time placements. Positions may be with business, local, state, or federal governments or community, social service, or not-for-profit organizations.

Undergraduate students must have upper division standing plus 12 credit hours in business, including any relevant core courses specified by the Kogod College department. The credit earned in a co-op course can be used only for a free business elective course, not to replace a core or area of specialization course.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the college and, upon college recommendation, graduate with University Honors in the major. The college's Honors coordinator advises students in the University Honors Program regarding college options. See the section on the University Honors Program in this catalog for further details.

Bachelor of Science in Accountancy (B.S.A.)

The Accountancy program has a liberal arts based curriculum that provides a general background in business operations as well as a comprehensive and in-depth coverage of accounting topics and issues. The program prepares students for professional positions in public accounting firms, corporations, not-for-profit organizations, and government. The B.S. in Accountancy is also designed to prepare students for the Uniform Certified Public Accountant Exam. Additionally, the program assists students in identifying their career objectives and formulating a plan to achieve these goals through a combination of educational and work experiences.

The distinctive features of the B.S. in Accountancy include:

- In consultation with their faculty advisers, students prepare and implement a Professional Accounting Career and Education (PACE) Plan. Students establish personalized career and educational goals, select courses that complement the study of accounting and assist students in achieving their goals, and complete a career-oriented experiential learning activity such as a co-op or internship.
- The program provides a strong foundation in business issues and operations from a global perspective.
- Business core and accounting courses emphasize the development of essential capabilities needed by accounting graduates: oral and written communication, interpersonal and computer skills.
- The program includes a minimum of 60 credit hours of course work in liberal arts and natural sciences and 30 credit hours of business core courses. Students take a maximum of 24 credit hours in the accountancy major beyond the business core, including 6 credit hours of accounting, finance, or law electives.
- Professional responsibilities and ethics are emphasized throughout the accounting curriculum. Relevant topics, issues, and assignments related to ethics and business-government relations are covered in two business core courses, 10.252 Business, Government and Society and 14.201 Legal Issues in Business.
- A Professional Speaker Series brings to campus distinguished professionals from public accounting firms, government agencies, financial institutions, non-profit entities, and other business and professional organizations in the Washington, D.C. area.

Admission to the Program

Freshman applicants should have demonstrated above average performance in their college preparatory courses in secondary school. Scores on the CEEB Scholastic Aptitude Test should indicate that the applicant has the potential for success in a rigorous university degree program. Due to the quantitative emphasis of the accountancy curriculum, it is strongly recommended that applicants take the Mathematics Achievement Test for placement purposes.

In addition to the requirements for transfer admission described in the Undergraduate Study chapter of this catalog, transfer applicants to Kogod College from other collegiate institutions should have maintained a minimum grade point average of 2.75 (on a 4.00 scale). This standard also applies to students transferring to Kogod College from the nondegree program at American University.

All B.S.A. transfer students are required to take a minimum of 21 credits in the Kogod College including 10.458 Business Policy and Strategy and at least 18 upper-level credits towards their major requirements. Transfer credits for upper-division business courses are subject to validation by the Accounting Department faculty and chair. Transfer credit may be conditional on successful completion of a more advanced accounting course at American University.

Provisional admission to the B.S. in Accountancy will be determined for entering freshman and transfer students. Formal admission to the program requires department approval. It is recommended that students formally apply for admission to the major at the end of the second semester of their sophomore year.

The minimum standards of performance that must be achieved prior to approval are:

- A total cumulative grade point average of 2.00 (on a 4.00 scale)
- A cumulative grade point average of 2.00 in 41.211 Applied Calculus I, 42.202 Basic Statistics, and 64.210 Introduction to Computer Information Systems or 64.280 Introduction to Computer Science I
- A minimum grade of C in 19.100 Macroeconomics and 19.200 Microeconomics
- A minimum grade point average of 2.50 in 14.240 Principles of Financial Accounting and 14.241 Principles of Managerial Accounting.

Students from other degree-granting units of the American University must satisfy the standards listed above before being accepted on transfer into the Kogod College and the B.S. in Accountancy.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Note: Please refer to the General Education Program chapter in this catalog. Kogod College students should fulfill General Education requirements before beginning the junior year of study. Curricular Area 4 may be fulfilled by 19.100 Macroeconomics and 19.200 Microeconomics.

Major Requirements

- A total of 120 credit hours with a cumulative grade point average of 2.00 or higher
 - Non-business prerequisite and required courses: 60 credit hours
- Accreditation standards for business programs require that students complete a minimum of 60 credit hours of course work outside the Kogod College.

Note: 12.200 Global Marketplace 3:2 and 13.200 Personal Finance and Financial Institutions 4:2 are considered business courses and may not count toward the non-business course requirement even if they are taken for General Education credit.

- Business core courses: 30 credit hours with grades of C or better (pass/fail grades are not permitted)
- Required upper-level accounting and elective courses: 24 credit hours with grades of C or better (pass/fail grades are not permitted)
- Career-oriented experiential learning activity: 0–3 credit hours
- Free electives: 3–6 credit hours

Students may take more than 60 credits hours of business courses, but the total for the degree will be over 120 credit hours.

Course Requirements

Students are responsible for fulfilling university and college degree requirements following a prescribed sequence. The Kogod College Office of Undergraduate Programs and Accounting Department faculty must be consulted for counseling and advice.

University Requirements

- 23.100 College Writing (3)
or
23.102/23.130/23.205/74.200
- 23.101 College Writing Seminar (3)
or
23.103/23.131/74.201
- 41.211 Applied Calculus I (4) *or*
41.221 Calculus I (4) (for students with a stronger background in mathematics)

Students needing to strengthen their quantitative skills should begin with 41.157 Finite Mathematics:Business.

Non-business Requirements

- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 42.202 Basic Statistics (4)
- 64.210 Introduction to Computer Information Systems (3) *or*
64.280 Introduction to Computer Science I (4)
- Accounting Complement (6) (see PACE Plan, below)
- Non-business electives (6–9)

Business Core Courses (30 credit hours)

- 10.252 Business, Government and Society (3)
- 10.353 Principles of Organizational Theory, Behavior and Management (3)
- 10.355 Production/Operations Management (3)
- 10.458 Business Policy and Strategy (3)
- 11.300 Principles of Marketing (3)
- 12.300 Fundamentals of International Business (3)
- 13.365 Corporate Finance (3)
- 14.201 Legal Issues in Business (3)
- 14.240 Principles of Financial Accounting (3)
- 14.241 Principles of Managerial Accounting (3)

Accountancy Major Requirements (24 credit hours)

- 14.340 Intermediate Financial Accounting I (3)
- 14.341 Intermediate Financial Accounting II (3)
- 14.345 Cost Accounting (3)
- 14.350 Introduction to Accounting Information Systems (C) (3)
- 14.443 Taxation I (3)
- 14.549 Auditing (3)
- Two from the following:
12.404 Multinational Accounting Issues (3)
13.3xx Finance elective (3)
14.202 Advanced Business Law (3)
14.444 Taxation II (3)
14.547 Advanced Financial Accounting (3)
14.560 Governmental and Not-for Profit Accounting (3)

Professional Accounting Career and Education (PACE) Plan

All students must prepare and implement a Professional Accounting Career and Education (PACE) Plan as an integral part of their program. Students are assigned an accounting faculty adviser when they declare their intention to major in accountancy. Student's PACE Plans are developed in consultation with their faculty adviser and are subject to approval by the department chair. Each student's PACE Plan includes the following:

- Development of a personalized statement of the student's educational and career objectives associated with pursuing the B.S. in Accountancy.

- B. Specification of General Education course selections including a brief explanation of the linkage of the selected courses to the student's academic and career objectives.
- C. Development of an "accounting complement," comprised of at least two related non-business courses (6 credit hours) beyond university and General Education requirements in a area that complements the student's professional accounting education.

Examples of accounting complements include:

Information systems courses from the Department of Computer Science and Information Systems (CSIS); two courses in a foreign language, from the School of International Service (SIS), or other internationally-related courses; environmental courses selected from natural science offerings; or government and public administration course work from the School of Public Affairs. Other possible complements include related courses in economics, law, communication, philosophy, the social sciences, and the humanities. A complement may be a minor in another field.

- D. Completion of a career-oriented learning requirement: all students participate in a co-op, internship or other experiential learning activity as part of their program.

Co-ops and internships, either paid or unpaid, may be with businesses, local, state or federal government, or community, social service or not-for-profit organizations. All co-ops must be taken for academic credit, but students have the option of fulfilling the experiential learning requirement through non-credit internships. Students are required to submit an Experiential Learning Report on their co-op, internship, or other experiential learning activity.

- E. Completion of a written evaluation in the last semester of the student's program of what was learned through the various elements of the student's PACE Plan.

Student Status

The Kogod College of Business Administration has two undergraduate classifications: lower-division (corresponding to the freshman and sophomore years), and upper-division (corresponding to the junior and senior years). In the lower-division, students complete university requirements in college writing and mathematics, the university General Education program, nonbusiness prerequisites to the upper-division courses (economics and statistics), and required courses 10.252 Business, Government and Society, 14.240 Principles of Financial Accounting, 14.241 Principles of Managerial Accounting, and 14.201 Legal Issues in Business. A student must earn a minimum of 24 credits before registering for lower-division business courses.

The upper-division is devoted primarily to the completion of the professional courses in business and accounting. To qualify for admission to the upper-division, students must successfully complete a minimum of 54 credits of course work, including all of the lower-division degree requirements in college writing, mathematics, economics, information systems, statistics and business. No upper-level business or accounting courses may be taken before attainment of upper-division sta-

tus. Exceptions must be approved by the associate dean for undergraduate programs.

Cooperative Education Program

Students are encouraged to fulfill their requirement for career-oriented experiential learning through the Cooperative Education Program. This program enables students to make career decisions and prepare for entry into the professional job market while earning degree credit in part-time placements with businesses, government, and not-for-profit organizations.

Undergraduate students must have upper division standing plus 12 credit hours in business, including any relevant core courses specified by the Kogod College. The credit earned in a co-op course can be used only for a free elective course.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the college and, upon college recommendation, graduate with University Honors in the major. The college's Honors coordinator advises students in the University Honors Program regarding college options. See the section on the University Honors Program in this catalog for further details.

Washington Semester in International Business and Trade

This special program offered in the fall and spring semesters draws on the unique environment of Washington, D.C., focusing on the interplay between national government institutions and the business sector. Students study the impact of government policies and actions on international business and trade through seminars with decision makers and business leaders, internships with organizations in Washington, and research. Students earn undergraduate credits which may be applied toward a bachelor's degree.

Admission to the Program

The program is open to non-business students at American University and to students of affiliated institutions from across the country. Requirements for admission to the program are: (1) nomination by a faculty representative of the Washington Semester Program; (2) a minimum grade point average of 2.50 (on a 4.00 scale); and (3) at least second-semester sophomore standing at the time of participation.

Requirements

- 12.420 International Business and Trade Seminar I (4)
- 12.421 International Business and Trade Seminar II (4)
- 12.422 International Business and Trade Research Project (4)
or
an elective course may be substituted for the research project
- 12.423 International Business and Trade Internship (4)

International Marketing Program in Brussels

The International Marketing Program enables both business and non-business students to gain international experience through a semester of course work offered in Brussels. Students in the program take 12.301 International Marketing, 11.301 Buyer Behavior, a course on the practice of business in the European Union, and either an internship or a French language course.

Minor in Business Administration

Designed to provide a minimum coverage of the common body of knowledge in business administration for nonbusiness majors.

Minor Requirements

- A total of 24 credit hours

Graduate Programs

Master of Business Administration (M.B.A.)

The goal of the M.B.A. program is to develop practical business managers with both the analytical ability and managerial skills to be able to succeed in the complex, technical arena of world-wide businesses today and in the future.

The M.B.A. program contains within its required curriculum the business perspectives and core areas required by the American Assembly of Collegiate School of Business. The M.B.A. is a broad, general management program with the opportunity for emphasis in a particular field.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have earned a satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade point average for the last 60 hours of academic work from a Council on Postsecondary Accreditation (COPA) regionally accredited institution.

Applicants whose first language is not English may be required to pass a special English test before they are permitted to register for Kogod College courses. Students who are not native English speakers must also be certified by the English Language Institute.

Students are admitted into the full-time program in August or January. This lock-step program of between 12 and 14.5 credit hours per semester allows for completion of the degree in four consecutive semesters. Within the limits of prerequisites and course availability, part-time students may move through the program at their own pace. At the completion of the course work specified in the first year of the full-time program, students may switch between the full-time and the part-time program with the approval of the director of Graduate Programs.

Course Requirements

Note: 19.100 Macroeconomics and 19.200 Microeconomics are prerequisites to 11.300 Principles of Marketing; 42.202 Basic Statistics is a prerequisite to 13.365 Corporate Finance. These courses must be successfully completed before starting the minor in Business Administration.

- 10.252 Business, Government and Society (3)
- 10.353 Principles of Organizational Theory, Behavior and Management (3)
- 11.300 Principles of Marketing (3)
- 12.300 Fundamentals of International Business (3)
- 13.365 Corporate Finance (3)
- 14.201 Legal Issues in Business (3)
- 14.240 Principles of Financial Accounting (3)
- 14.241 Principles of Managerial Accounting (3)

While not required, the following additional course or its equivalent is highly recommended:

- 64.210 Introduction to Computer Information Systems (3)

Degree Requirements

- A total of 54 credit hours of approved graduate course work; M.B.A. students may take a maximum of 6 credits in 500-level courses or graduate courses which meet concurrently with undergraduate courses.
- Research requirement (6 credits): Students must earn a grade of B or better in courses specified from the total credit hour requirement as a non-thesis option:
 - 18.624 Applied Strategic Management in a Global Environment (1.5)
 - 18.626 Field Practicum (3) or approved substitute for part-time students
- Orientation requirement: All students are required to participate in an orientation program prior to the start of classes in their first semester. The orientation lasts one week for full-time students and is conducted over one weekend for part-time students. The program includes workshops on computer skills, oral communication, business writing, team building, and the case study method, and an overview of university resources such as the library and placement services.

Course Requirements

Business Core and Breadth (39 credits)

- 18.601 Management Skills Practicum (1)
- 18.605 Managerial Economics I: Business, Government and the International Economy (2)
- 18.606 Managerial Economics II: Economics of the Firm and Industry (2)
- 18.607 Financial Accounting Concepts and Applications (2)
- 18.608 Managerial Accounting Concepts and Applications (2)

- 18.609 Organizational Behavior and Human Resource Management (3)
- 18.610 Quantitative Methods I: Statistics in Managerial Decision Making (2)
- 18.611 Quantitative Methods II: Operations Research in Managerial Decision Making (2)
- 18.612 Marketing Management (3)
- 18.614 Financial Management (3)
- 18.616 Management Information Systems (3)
- 18.618 Manager in the International Economy (3)
- 18.621 Quality Management (2)
- 18.622 Business and Society (1.5)
- 18.623 Legal Environment of Global Business (1.5)
- 18.624 Applied Strategic Management in a Global Environment (3)
- 18.626 Field Practicum (3)

Note: Students who have completed the equivalent of the first semester of the M.B.A. program in their undergraduate curricula with a B or better may qualify for a block waiver of the first 13 credits in the full-time program or individual course waivers in the part-time program.

Elective Courses (6 credits)

Students complete 6 credits of elective courses which may be taken in business, international relations, government, or other relevant disciplines. Students may also use their elective courses to take additional courses in an area of concentration.

Concentrations (9–12 credits)

All students declare a concentration and complete a minimum of 9 credits in this concentration. Students may choose departmentally designed concentrations, or they may design their own concentration with the approval of their faculty adviser.

Accounting (12 credits)

The Accounting concentration is designed to prepare graduates for management careers and provide them with basic conceptual knowledge of accounting as a foundation for accounting career development.

The Accounting concentration consists of 12 credits of accounting course work beyond the MBA core financial and managerial accounting modules. Students are encouraged to consult with the accounting department faculty in designing their concentration.

Required (or waived with substitution):

- 14.621 Financial Accounting and Reporting (1.5)
- 14.622 Asset Valuation and Reporting (1.5)
- 14.625 Managerial Accounting: Cost Behavior and Determination (1.5)
- 14.626 Accounting for Management Planning and Control (1.5)

- Six credits from the following:
 - 14.547 Advanced Financial Accounting (3)
 - 14.549 Auditing (3)
 - 14.560 Governmental and Not-for Profit Accounting (3)
 - 14.604 Federal Income Taxation (3)
 - 14.623 Financial Accounting for Debt and Equity (1.5)
 - 14.624 Special Topics in Financial Accounting (1.5)
 - 14.651 Accounting Information Systems: Transaction Processing (1.5)
 - 14.652 Accounting Information Systems: Control and Special Topics (1.5)
 - 14.671 Accounting in a Multinational Environment (1.5)
 - 14.672 International Accounting: Technical Issues (1.5)

Note: Students must take at least 9 credit hours of the 12 hour concentration in 600-level or higher courses. Students who wish to take more advanced accounting courses may do so with approval of the accounting department chair.

Management of Global Information Technology (MoGIT) (12 credits)

MoGIT integrates information technology management with global management to provide a foundation of both technical and managerial skills.

- 18.650 Global Telecommunications (1.5)
- 18.651 Systems and Database Designs (1.5)
- 18.657 Systems Analysis for Managers (1.5)
- 18.709 Comparative Management Systems (3)
- Elective courses: 4.5 credits from the following:
 - 18.652 Strategic Management of Global Information Systems (1.5)
 - 18.653 Managing the Global Information Systems Organization (1.5)
 - 18.654 Impacts of National Information Technology Environments on Business (1.5)
 - 18.656 Current Topics in Management of Global Information Technology (1.5)
 - 18.658 International Electronic Commerce (1.5)
 - 18.659 Designing Systems for the Global User (1.5)

Economic Development Management (9 credits)

- Nine credits from the following with the approval of the faculty adviser:
 - 19.661 Economic Development Policy (3)
 - 33.636 Micropolitics of Development (3)
 - 33.637 International Development (3)
 - 54.614 Development Management (3)

Entrepreneurship and Management (9 credits)

- 18.661 Entrepreneurship and New Venture Management (3)
- 18.662 Managing Small and Growing Companies (1.5)
- 18.663 Managing a Family Business (1.5)
- 18.664 Entrepreneurial Leadership and Organizational Creativity (3)
- 18.665 Management of Entrepreneurship in Service Organizations (1.5)

Finance (9 credits)

- 18.679 Seminar in Finance (3)
- Six credits from the following (exceptions require the approval of the department chair):
 - 18.671 Advanced Financial Corporate Management (3)
 - 18.672 Securities Analysis (3)
 - 18.674 Financial Futures and Other Derivative Instruments (1.5)
 - 18.675 Portfolio Management (1.5)
 - 18.676 Financial Institutions (1.5)

Human Resource Management (9 credits)

- Nine credits from the following:
 - 18.730 Performance Management (3)
 - 18.731 Compensation Systems (1.5)
 - 18.732 Retirement Plan Management (1.5)
 - 18.733 Employee Benefits Management (1.5)
 - 18.734 Human Resource Development (1.5)
 - 18.735 National and International Labor Policy (1.5)
 - 18.736 Recruiting and Selecting a Diverse Workforce (1.5)
 - 18.737 Employer and Employee Rights (1.5)
 - 18.738 Workforce Planning (1.5)

International Business (9 credits)

Students with a concentration in International Business choose from one of the following three tracks:

International Finance:

- 18.634 Legal Issues in International Investment and Trade (1.5)
- 18.700 International Finance (3)
- 18.701 International Banking (1.5)
- Three credits from the following modules:
 - 14.671 Accounting in a Multinational Environment (1.5)
 - Any Advanced Finance Module (18.670–18.682)

International Marketing:

- 18.703 Assessing International Markets (1.5)
- 18.704 Issues in International Marketing (1.5)
- 18.705 Export/Import Management (1.5)
- 4.5 credits from the Advanced Marketing Modules (18.710–18.719)

International Management:

- 18.707 Managing Human Resources in Multinational Corporations (1.5) *and*
- 18.708 Issues in International Training and Labor Relations (1.5)
- or*
- 12.507 International Human Resource Management (3)
- 18.709 Comparative Management Systems (3)
- Three credits from the Advanced Management Modules (18.651–18.656, 18.661–18.665)

Marketing (9 credits)

- 18.710 Qualitative Methods in Market Research (1.5)
- 18.711 Strategic Marketing Analysis (1.5)
- 18.712 Marketing Planning and Execution (1.5)

- Elective Modules: 4.5 credits from the following:
 - 18.713 Survey Methods in Marketing Research (1.5)
 - 18.714 Buyer Behavior (1.5)
 - 18.715 Promotion Management (1.5)
 - 18.716 Advertising Management (1.5)
 - 18.717 Legal and Regulatory Issues in Marketing Management (1.5)
 - 18.718 Social and Ethical Dimensions of Marketing Strategy (1.5)
 - 18.719 European Marketing Strategies (1.5–3)

Real Estate (9 credits)

- 18.720 Real Estate: Managing Properties (1.5)
- 18.722 Real Estate Investment (1.5)
- 18.723 Real Estate Finance and Mortgage Markets (3)
- 18.724 Real Estate Development and Secondary Mortgage Markets (3)

Exceptions require the approval of the department chair.

International Service

M.B.A. students may choose a School of International Service (SIS) concentration from the following. Students pursuing these concentrations must consult the SIS Graduate Office in order to register.

Comparative and Regional Studies (9 credit hours)

- One course from the following:
 - 33.601 Introduction to Theory in International Relations (3)
 - 33.604 Masterworks of International Relations (3)
 - 33.670 Theory and Methods in Cross-National Studies (3)*or*
 - Another appropriate international relations theory course approved by the SIS associate dean or designee
- Six credit hours of course work on a single geographic region (Africa, the Americas, Asia, Europe, the Middle East, Russia and Central Eurasia) subject to approval by the SIS associate dean or designee

International Communication (9 credit hours)

- 33.640 International Communication (3)
- Six credits from the following:
 - 33.641 Psychological and Cultural Bases of International Politics (3)
 - 33.642 Cross-Cultural Communication (3)
 - 33.644 Communication and Social and Economic Development (3)
 - 33.645 International and Comparative Communication Policies (3)
 - 33.695 Research Seminar in International Communication (3)

International Economic Policy (9 credit hours)

- 33.615 Fundamentals of U.S. Foreign Economic Policy (3)
- Six credits from the following:
 - 33.519 Special Studies in International Politics: International Economic Policy Coordination (3)
 - 33.565 Japanese-U.S. Economic Relations (3)

33.665 Contemporary International Trade and Investment Policies (3)

33.666 Contemporary International Monetary, Finance, and Energy Policies (3)

33.696 Selected Topics course with approval by the SIS associate dean or designee (3)

International Politics (9 credit hours)

- One of the following:
33.601 Introduction to Theory in International Relations (3)
33.604 Masterworks of International Relations (3)
- Six credits from one of the following subfields (see requirements for the M.A. in International Affairs concentration in International Politics in the School of International Service chapter):

International Political Economy
International Law and Organization
Peace and Conflict Resolution

United States Foreign Policy (9 credit hours)

- One course from the following:
33.581 Schools of Thought in Contemporary United States Foreign Policy (3)
33.689 Seminar in Foreign Policy Analysis (3)
- Six credits from the field course requirement for the M.A. in International Affairs concentration in United States Foreign Policy. (See the School of International Service chapter)

Foreign Language

Concentrations are also available in French, Russian and Spanish through the Department of Language and Foreign Studies (LFS) of the College of Arts and Sciences (CAS). Students pursuing these concentrations must possess proficiency in the language as determined by LFS, and the language must be a second language for the student. All LFS graduate courses are taught in the particular language. Students may tailor an individual program with the approval of the director of M.B.A. program and the chair of the Department of Language and Foreign Studies.

The basic structure for a concentration is as follows:

- A cultural seminar on a region in which the language is spoken
- A translation course which involves the translation of business documents
- An internship with an international organization requiring the use of the language

French (9 credit hours)

- 37.702 Seminar in French Studies (3) or another French course taught exclusively to graduate students
- Six credits from the following:
37.529 Colloquium on France (3) (may be repeated for credit)
37.596 Selected Topics courses may be used to fulfill the requirement (3)
37.628 French Translation: Concepts and Practice (3)
37.691 Internship: French (1-3)

Russian (9 credit hours)

- 37.704 Seminar in Russian Studies (3) or another Russian course taught exclusively to graduate students
- Six credits from the following:
37.641 Advanced Russian Media and Political Translation (3)
37.643 Russian Business Translation (3)
37.691 Internship: Russian (1-3)
37.696 Selected Topics courses may be used to fulfill the requirement (3)

Spanish (9 credit hours)

- 37.705 Seminar in Spanish and Latin American Studies (3) or another Spanish course taught exclusively to graduate students
- Six credits from the following:
37.656 Spanish Topics (3) (may be repeated for credit)
37.658 Introduction to Spanish Translation (3)
37.659 Advanced Spanish Translation (3)
37.691 Internship: Spanish: Projecto Amistad (1-3)

Cooperative Education Opportunities

Cooperative Education Field Experiences may be available for up to 6 elective credits. A prerequisite for all graduate co-ops is completion of 18.601–18.618.

M.S. in Accounting (M.S.A.)

In addition to the development of strong general and technical competency, the M.S. in Accounting program is designed to instill in students the highest standards of personal integrity and professional ethics. M.S.A. graduates utilize their knowledge and professional standards to lead organizations toward economic success and social responsibility in the global community of the twenty-first century.

The Kogod College Accounting Department is strongly committed to the professional ideals of competency, integrity, and public responsibility. The primary mission of the M.S.A. program is to teach graduates to understand and apply the accounting profession's ideals, standards, and practices in a wide range of professional careers. American University's location in our nation's capital provides opportunities to apply professional accounting expertise and values to the formulation and implementation of public policy and the resolution of domestic and international issues involving business, government and non-profit organizations.

The M.S.A. program is designed to meet the educational needs of students with non-accounting baccalaureate backgrounds or to provide an advanced program for students with baccalaureate degrees in accounting who wish to complete a fifth year of professional accounting education. Prior education in business or accounting is not required. However, students lacking appropriate prior education will be required to complete up to 30 graduate credit hours in foundation business and accounting course work in addition to the 30-credit hour M.S.A. curriculum.

Admission to the Program

Requirements for admission to the program are the same as those for the M.B.A. degree. In addition to meeting the minimum university requirements for graduate study, applicants must have earned a satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade point average for the last 60 hours of academic work from a Council on Postsecondary Accreditation (COPA) regionally accredited institution. M.S. in Accounting students are subject to the same mathematics competency requirements as M.B.A. students.

The prior education of all M.S.A. students will be evaluated upon admission to the program, and an individualized program of study will be designed in consultation with an accounting faculty advisor. The modular format of the M.S.A. curriculum is designed to provide students with maximum flexibility in fulfilling program requirements and in selecting elective courses to meet individual academic and professional career objectives.

Degree Requirements

- 30–60 credit hours of graduate course work depending on an evaluation of the student's educational background. Students must demonstrate satisfactory completion of course work providing general foundation knowledge in business administration including principles of accounting, economics, organizational behavior, quantitative methods, marketing, finance, and the international dimension of business. In addition, students must complete foundation accounting course work in the following areas: intermediate financial accounting, managerial cost accounting, taxation, auditing, and accounting information systems.

Course Requirements

Foundation Courses (30 credits)

Students who have not completed the necessary foundation course work prior to entering the M.S.A. program will be required to complete up to 30 credit hours from the following:

Business (21 credits)

- 18.605 Managerial Economics I: The Firm and Industry (2)
- 18.606 Managerial Economics II: Managing the Economy (2)
- 18.607 Financial Accounting Concepts and Applications (2)
- 18.608 Managerial Accounting Concepts and Applications (2)
- 18.609 Organizational Behavior and Human Resource Management (3)
- 18.610 Quantitative Methods I: Statistics in Managerial Decision Making (2)
- 18.611 Quantitative Methods II: Operations Research in Managerial Decision Making (2)
- 18.612 Marketing Management (3)
- 18.614 Financial Management (3)

Accounting (9 credits)

- 14.621 Financial Accounting and Reporting (1.5)
- 14.622 Asset Valuation and Reporting (1.5)
- 14.623 Financial Accounting for Debt and Equity (1.5)
- 14.624 Special Topics in Financial Accounting (1.5)
- 14.625 Managerial Accounting: Cost Behavior and Determination (1.5)
- 14.626 Accounting for Management Planning and Control (1.5)

M.S.A. Program (30 credit hours)

Breadth Component (9 credit hours)

- 14.602 Legal Environment of the Accounting Profession (3) *or*
18.623 Legal Environment of Global Business (1.5) *and*
18.631 Legal Issues of Financial Management (1.5) *or*
18.632 Legal Issues of Business Organizations (1.5)
(or other non-accounting course work as approved by adviser)
- Non-accounting course work (6)

Accounting Component (18–21 credit hours)

Students with 12 or more credits of previous course work beyond accounting principles may take 18 credit hours of accounting course work; all others take 21 credit hours:

- 14.549 Auditing (3)
- 14.604 Federal Income Taxation (3)
- 14.651 Accounting Information Systems: Transaction Processing (1.5)
- 14.652 Accounting Information Systems: Controls and Special Topics (1.5)
- 14.780 Seminar in Accounting Theory (3) (required for all M.S.A. students)
- Courses from the following to complete the accounting component:
14.547 Advanced Financial Accounting (3)
14.560 Governmental and Not-for Profit Accounting (3)
14.671 Accounting in a Multinational Environment (1.5)
14.672 International Accounting: Technical Issues (1.5)
14.690 Independent Study in Accounting (1–6)
14.692 Cooperative Education Field Experience (3–6)
14.725 Advanced Managerial Accounting I (1.5)
14.726 Advanced Managerial Accounting II (1.5)
14.760 Advanced Auditing (1.5)
14.764 Contemporary Issues in Auditing and Professional Practice (1.5)
14.770 Current Topics in Accounting (1.5)
14.xxx Graduate tax courses

Elective Component (0–3 credit hours)

- Students with 12 or more credits of previous accounting course work beyond accounting principles may take 3 credit hours of free elective course work

M.S. in Finance (M.S.F.)

The objective of the Master of Science in Finance (M.S.F.) program is to provide graduates with greater depth in finance and real estate education than is possible in baccalaureate or M.B.A. programs. Graduates are prepared to analyze complex issues and exercise professional judgment in decision making by drawing on an integrated and comprehensive body of financial knowledge. The M.S.F. program also assures that graduates have mastered the breath of knowledge in business administration essential for decisive action in professional practice. In addition to developing strong general and technical competency, the program is designed to instill the highest standards of personal integrity and professional ethics. M.S.F. graduates should be well prepared to apply their knowledge and professional standards in the public interest and to lead organizations toward economic success and social responsibility in the global community of the twenty-first century.

The Department of Finance and Real Estate is strongly committed to the professional ideals of competency, integrity, and public responsibility. The primary mission of the department's M.S.F. program is to teach graduates to understand and apply these ideals in their professional careers. The program draws on the advantages and opportunities inherent in the American University's location in our nation's capital. It emphasizes the applicability of professional finance expertise and values to the formulation and implementation of public policy, the resolution of domestic and international issues involving business, government and non-profit organizations, and the advancement of the ideals, standards and practices of the finance and real estate professions.

The M.S.F. program is designed to meet the educational needs of those with or without prior education in business or finance. Students without an appropriate educational background complete up to 13 graduate credit hours in business foundation courses above the 30.5 credit hour M.S.F. program.

The modular format of the M.S.F. curriculum is designed to provide students with maximum flexibility in fulfilling program requirements and selecting elective courses to meet individual academic and professional career objectives. The prior education of all M.S.F. students is evaluated upon admission to the program and an individualized program of study is designed in consultation with a finance faculty adviser. Students must demonstrate satisfactory completion of course work providing general foundation knowledge in economics, accounting, quantitative methods, and financial management. The program may be completed on a full-time or part-time basis by attending evening classes.

Admission to the Program

Requirements for admission to the program are the same as for the M.B.A. degree. In addition to meeting the minimum university requirements for graduate study, applicants must have earned a satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade point aver-

age for the last 60 hours of academic work from a Council on Post Secondary Accreditation (COPA) regionally accredited institution. M.S.F. students are subject to the same mathematics competency requirements as M.B.A. students.

Degree Requirements

- A minimum of 30.5 to a maximum of 43.5 credit hours of graduate course work depending on an evaluation of each student's educational background.
- For students who have completed all business foundation requirements, the 30.5 credit hour M.S.F. program consists of:
Finance core courses: 5 credit hours
Advanced finance and real estate courses: 19.5 credit hours
Breadth electives approved by the Department of Finance and Real Estate: 6 credit hours
- Students who need to complete all business foundation requirements also take required business foundation courses: 13 credit hours

Course Requirements

Business Foundation Courses (13 credit hours)

- 18.605 Managerial Economics I: Business, Government and the International Economy (2)
 - 18.606 Managerial Economics II: Economics of the Firm and Industry (2)
 - 18.607 Financial Accounting Concepts and Applications (2)
 - 18.608 Managerial Accounting Concepts and Applications (2)
 - 18.610 Quantitative Methods I: Statistics in Managerial Decision Making (2)
 - 18.614 Financial Management (3)
- Students who have taken comparable courses within the last five years with a grade of B or better may be able to waive these courses.

Required Finance Core Courses (5 credit hours)

- 18.678 Quantitative Methods in Finance (2)
- 18.679 Seminar in Finance (3)

These courses, together with one additional 1.5 credit module from the elective Finance and Real Estate courses below fulfill the non-thesis option requirement. Students must receive a grade of B or better for non-thesis option courses.

Elective Courses (25.5 credit hours)

- At least 19.5 credit hours from the following:

Finance

- 18.671 Advanced Financial Corporate Management (3)
- 18.672 Security Analysis (3)
- 18.674 Financial Futures and Other Derivative Instruments (1.5)
- 18.675 Portfolio Management (1.5)
- 18.676 Financial Institutions (1.5)
- 18.677 Financial Statement Analysis (1.5)
- 18.700 International Finance (3)
- 18.701 International Banking (1.5)

Real Estate

- 18.720 Real Estate: Managing Properties (1.5)
- 18.722 Real Estate Investment (1.5)
- 18.723 Real Estate Finance and Mortgage Markets (3)
- 18.724 Real Estate Development and Secondary Mortgage Markets (3)
- 18.727 Legal Issues in Acquisition and Transfer of Real Estate (1.5)
- Up to 6 credit hours in Finance and Real Estate courses listed above, or from the following (other graduate courses may be approved by the chair of the Finance Department):

Accounting

- 14.547 Advanced Financial Accounting (3)
- 14.621 Financial Accounting and Reporting (1.5)
- 14.622 Asset Valuation and Reporting (1.5)
- 14.623 Financial Accounting for Debt and Equity (1.5)
- 14.624 Special Topics in Financial Accounting (1.5)
- 14.625 Managerial Accounting: Cost Behavior and Determination (1.5)
- 14.626 Accounting for Management Planning and Control (1.5)
- 14.671 Accounting in a Multinational Environment (1.5)
- 14.672 International Accounting: Technical Issues (1.5)
- 14.762 SEC Regulatory Reporting (1.5)
- 18.631 Legal Issues of Financial Management (1.5)

Economics

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.522 Econometrics (3)
- 19.564 Development Finance (3)
- 19.632 Development Banking (3)
- 19.672 International Economics: Finance (3)

Independent Study/Cooperative Education

- 18.690 Independent Study (1-6)
- 18.692 Cooperative Education (3-6)

M.S. in Taxation**Admission to the Program**

In addition to meeting the minimum university requirements for graduate study, applicants must have earned an undergraduate bachelor's degree in business administration from a Council on Post Secondary Accreditation (COPA) regionally-accredited institution with a satisfactory grade point average for the last 60 credit hours and a satisfactory score on the Graduate Management Admission Test (GMAT). Students who have successfully completed the CPA examination may substitute it for the GMAT.

The applicant must demonstrate satisfactory completion of course work equivalent to the Common Body of Knowledge for undergraduate business education as currently defined by the American Assembly of Collegiate Schools of Business (AACSB). In addition, the applicant must have completed two semesters of intermediate accounting, one semester of business law, federal income taxation, and macroeconomics. Any deficiencies in the above prerequisite courses must be completed at the graduate level at the American University after admission to the program, and are in addition to other program requirements. M.S. in Taxation students are subject to the same mathematics competency requirements as the M.B.A. students.

degrees in the above prerequisite courses must be completed at the graduate level at the American University after admission to the program, and are in addition to other program requirements. M.S. in Taxation students are subject to the same mathematics competency requirements as the M.B.A. students.

Degree Requirements

- Ten graduate tax courses (30 credit hours), including two required core tax courses (6 credit hours), a research component (6 credit hours), and six elective tax courses (18 credit hours)

Course Requirements**Core Tax Courses (6 credit hours)**

- 14.630 Legislative and Judicial Foundations of Income Tax (3)
- 14.631 Tax Research and Procedure (3)

Research Component (6 credit hours)

There are three options to satisfy the research component; the first two require a written thesis and the third requires two research oriented courses in lieu of a thesis. The thesis and all research component courses must be completed with a grade of B or better.

Option 1

- 14.797 Master's Thesis Seminar (6)

Option 2

- 14.750 Tax Policy (3)
- 14.797 Master's Thesis Seminar (3)

Option 3: Nonthesis Option

- 14.750 Tax Policy (3)
- One of the following:
 - 14.740 Corporation Income Taxation II (3)
 - 14.743 International Taxation (3)
 - 14.746 Taxation of Real Estate Transactions (3)
 - 14.747 Partnership Taxation (3)
 - 14.751 Seminar in Business Tax Planning (3)
 - 14.752 Seminar in Family Financial Planning (3)

Elective Courses (18 credit hours)

- Six courses chosen from the following (at least one of the elective courses must be at the 600-level; the same course may not be used to fulfill the non-thesis research requirement and as an elective):
 - 14.632 Estate and Gift Tax (3)
 - 14.633 Corporation Income Taxation I (3)
 - 14.740 Corporation Income Taxation II (3)
 - 14.741 State and Local Taxation (3)
 - 14.742 Special Tax Topics (3)
 - 14.743 International Taxation (3)
 - 14.745 Employee Benefit Tax Planning (3)
 - 14.746 Taxation of Real Estate Transactions (3)
 - 14.747 Partnership Taxation (3)
 - 14.751 Seminar in Business Tax Planning (3)
 - 14.752 Seminar in Family Financial Planning (3)

M.A./M.B.A. in International Affairs and Business Administration

Kogod College and the School of International Service jointly offer a program through which students may earn a master's degree in International Affairs with a concentration in Comparative and Regional Studies combined with a Master of Business Administration. Students must apply to and be accepted by both schools. Admission is for full-time students only. During the first year of the program, students will move through the program as members of a cohort. Students also participate in a required orientation and special workshops as part of the program. See the Interdisciplinary Programs chapter for a complete description of the program and degree requirements.

J.D. and Master of Business Administration

Admission to the Program

Applicants must satisfy the admission requirements of both Kogod College and Washington College of Law before being admitted to the program. However, students who have been admitted to Washington College of Law will not be required to take the GMAT.

M.B.A. Course Requirements

Students must take all first-year courses (18.605–18.618) in the M.B.A. program; students have the option to substitute advanced functional area or appropriate law school courses for second-year courses (18.621–18.626):

Business Core

- 18.605 Managerial Economics I: Business, Government and the International Economy (2)
- 18.606 Managerial Economics II: Economics of the Firm and Industry (2)
- 18.607 Financial Accounting Concepts and Applications (2)

- 18.608 Managerial Accounting Concepts and Applications (2)
- 18.609 Organizational Behavior and Human Resource Management (3)
- 18.610 Quantitative Methods I: Statistics in Managerial Decision Making (2)
- 18.611 Quantitative Methods II: Operations Research in Managerial Decision Making (2)
- 18.612 Marketing Management (3)
- 18.614 Financial Management (3)
- 18.616 Management Information Systems (3)
- 18.618 Manager in the International Economy (3)
- 18.621 Quality Management (2) or a substitute advanced functional area course approved by the adviser
- 18.622 Business and Society (1.5) or an appropriate law school course
- 18.623 Legal Environment of Global Business (1.5) or an appropriate law school course
- 18.624 Applied Strategic Management in a Global Environment (3) or a substitute advanced functional area course approved by the adviser
- 18.626 Field Practicum (3) or an appropriate supervised 3-credit legal clinical practice experience

Elective, Concentration, and Workshop Courses

Students may use appropriate law school courses for the 6 elective credits and the 9 credit concentration in the M.B.A. program, and may substitute appropriate legal practice skills courses from the law school for the required managerial skills workshops in the M.B.A. program.

J.D. Degree Requirements

Students must complete 86 credit hours for the J.D. degree. The Washington College of Law may give up to a maximum of 6 credit hours toward the J.D. degree for courses taken at Kogod College, provided they are approved by the Joint Washington College of Law-Kogod College Committee.

School of International Service

- Administration and Faculty
- Undergraduate Programs
- Graduate Programs

Dean Louis W. Goodman

Associate Dean Nanette S. Levinson

Director, Division of Comparative and Regional Studies

Linda L. Lubrano

Director, Division of International Politics and Foreign Policy

Renée Marlin-Bennett

Director, International Communication Division

Hamid Mowlana

Director, International Development Division

Steven H. Arnold

Director, J.D./M.A. Program Paul Williams

Director, Ph.D. Program John M. Richardson

Full-Time Faculty

University Professor Emeritus R.H. Gabriel

Professor Emeritus/a J.J. Finan, G.L. Harris,

W.G. Hunsberger, M.D. Irish, K.P. Landon, A.D. Mott,

W.C. Olson, F.J. Piotrow, D.D. Randall, M. Struelens,

B.B. Tyson, M.P. Walker, L.C. Wilson

Mohammed Said Farsi Chair of Islamic Peace A.A. Said

Professor P. Brenner, D.L. Clarke, S.D. Cohen,

W.C. Cromwell, J. Goldstein, L.W. Goodman,

R.W. Gregg, L.L. Lubrano, S. Mardin, J. Mittelman,

H. Mowlana, J.M. Richardson, G. Weaver

Associate Professor S.H. Arnold, D. Brautigam, R. Broad,

F. Cheru, M. Hammer, R. Henning, D. Hirschmann,

W. Kincade, N.S. Levinson, R. Marlin-Bennett, M. Pasha,

V. Samarasinghe, S. Silvia, P. Wapner, Q. Zhao

Assistant Professor M. Abu-Nimer, K. Alexander,

E. Comor, M. Egan, J. Heining, S. Hoagland,

T. Johnson, H. Kim, J. King, D. Kinsella, B. Koulov, P. Lewis,

C. Lusane, C. Maisch, L. McLaren, S. Murray, R. Persaud,

A. Phillips, C. Rossi, M. Salla, C. Schneider, S. Sharoni,

S. Stoecker, S. Venturelli, P. Williams

Assistant Research Professor J. Lee, J. Mendelson

Instructor D. Friedheim, R. Vij

Diplomat in Residence C. Maksoud

The School of International Service (SIS) offers professional training in international affairs. The programs are based on an interdisciplinary curriculum oriented towards the liberal arts that encourages students to explore foreign affairs through the contributions of political scientists, sociologists, anthropologists, economists, attorneys, historians, and specialists in communication.

The school offers exceptional opportunities for undergraduate and graduate studies. These opportunities evolve from the location of the university in a world capital and from the rich human and documentary resources which enhance the school's educational programs.

At all times the link between the school and its Washington environment nourishes the academic growth of its students. Whatever their career objectives, students participate in programs that are multidisciplinary, problem and policy oriented, and uniquely adapted to those opportunities inherent in the metropolitan Washington location.

Faculty

The diversity of the full-time faculty members of the School of International Service in terms of academic disciplines and professional experience, both in the United States and abroad, exemplifies the multidisciplinary and cross-cultural aspects of international relations. Bringing cutting-edge research into their classrooms, the faculty use a variety of interactive approaches such as simulations and case studies in their teaching. The school regularly appoints adjunct and visiting professors and benefits from their expertise in the field of international relations. As a center of public dialogue, the school brings leading experts from around the world to address emerging issues in international affairs.

Divisions

The School of International Service includes four divisions: Comparative and Regional Studies, International Politics and Foreign Policy, International Communication, and International Development.

The Division of Comparative and Regional Studies (CRS) provides unique opportunities for the study of the major regions of the world: Africa, the Americas, Asia, Europe, the Middle East, and Russia and Central Eurasia. The CRS curriculum builds upon

the in-depth coverage of these regions by stressing that issues are best understood in comparative perspective.

The Division of International Politics and Foreign Policy (IPFP) includes the subfields of international law and organization, international political economy, peace and conflict resolution, U.S. foreign policy, and international economic policy. Students ground their work in appropriate theory and economics courses.

The International Communication Division is the oldest such degree program in the United States. It focuses on international communication policy and technology as well as cross-cultural communication.

The International Development Division includes two multidisciplinary degrees which combine international development theory and practice with the goal of improving opportunities for the poor and vulnerable, particularly in developing nations. Its emphases include development management, policy analysis, and development education.

Special Opportunities

Numerous school-wide special programs are available for undergraduate and graduate students. These include study and internship opportunities around the world and in the international capital city of Washington, D.C. (including the U.S. Department of State). These opportunities help SIS student to actively link theory and practice and to build skills that are critical in an increasingly global world. Students write for SIS publications, including *The Diplomatic Pouch*, *Swords and Ploughshares*, and *Demokratizatsiya* and participate in school and university governance, enhancing both service and leadership potential. Through the SIS Research Symposium or working on a publication with peers or professors, SIS students at all levels are involved in cutting-edge scholarly and policy-oriented research.

The school also sponsors numerous co-curricular opportunities including the annual SIS student-faculty softball game and the student-faculty-alumni autumn hike. The Griffith Lecture Series, organized by the SIS Graduate Student Council, brings visiting scholars and foreign policy practitioners to the school each year. Regular fora in international development, international communication, international politics, and U. S. foreign policy attract experts from around the world and engage students in formal and informal discussions. Career-oriented workshops greatly enhance opportunities for successful learning and networking.

Internships and Cooperative Education Opportunities in Washington, D.C.

Only in Washington can the subject of international affairs be studied in such a relevant context. This location affords opportunities for students on learning with academic credit through an increasing number of internships in government and private sectors with international interests. Internships are available with international organizations, congressional committees, lobbying groups, research organizations, and government offices of special professional interest to the SIS student. Cooperative education is an academic program that places stu-

dents in preprofessional jobs for which they earn degree credit. Students who participate in the cooperative education experience are often offered permanent employment as a result of their co-op assignments.

Unique Educational Resources

Qualified undergraduate and graduate students have the opportunity to enroll in courses at any of the institutions in the Consortium of Universities of the Washington Metropolitan Area. By taking advantage of consortium offerings, students may greatly enrich their programs, particularly in specialized interest areas and language study. Washington, D.C. offers unique research facilities including the Library of Congress, the National Archives, and various other libraries maintained by government agencies, public and private international organizations associations, and other area universities.

The university operates the Social Science Computer Laboratory, which provides students access to commonly used applications and to the Internet. As a member of the Inter-University Consortium for Political and Social Research (ICPSR), American University possesses over one hundred data sets and has ready access to hundreds of others.

Study and Internships Abroad

Study abroad is encouraged and students frequently take advantage of the opportunity to learn and work in another culture. The university officially sponsors programs in London, Paris, Rome, Madrid, Brussels, Berlin, Copenhagen, Prague, Moscow, Buenos Aires, Santiago, Beijing, and Kyoto, Japan. Participation in programs of study sponsored by other accredited U.S. collegiate institutions is allowed. Such academic credit is readily transferable to American University. Tours to other nations led by faculty members are occasionally offered during the academic year, during semester breaks, and in the summer.

Career and Professional Opportunities

The school has had great success preparing students for international service. Graduates have established flourishing careers in fields including foreign service, economic development, intelligence gathering and assessments, disaster relief, policy analysis, congressional affairs, and technology transfer. Graduates accept positions in Washington and elsewhere with agencies concerned with health, food resources, population, security, arms control, diplomacy, and international trade and banking. SIS alumni also serve in the international branches of organizations involved in law, agriculture, science, religion, culture, printing and publishing, journalism, management, accounting, and higher education. The wide range of government activities in Washington, D.C., including the Foreign Service, the Armed Forces, and Congress creates unique opportunities for career development.

Undergraduate Study

Students may select either the B.A. in International Studies or the B.A. in Language and Area Studies. The B.A. in International Studies begins with foundation courses in world politics, Western traditions, non-Western area studies, U.S. politics, and economics. Students take core courses in U.S.

foreign policy, international communication, international development, international economic policy, and research methods. While building this foundation, students also complete the school's modern foreign language requirement.

Building on the foundation and core courses, students select an area specialization (Africa, the Americas, Asia, Europe, the Middle East, or Russia and Central Eurasia) and a functional field of concentration (International Politics, U.S. Foreign Policy, International Business, International Communication, International Development, International Economics/Economic Policy, Islamic Studies, or Peace and Conflict Resolution Studies). The program capstone is the integrative Senior Seminar.

The B.A. in Language and Area Studies offers a choice of the following area studies concentrations: French/Europe, German/Europe, Spanish/Latin America, and Russian/Area Studies. This degree program provides a foundation in language and culture courses complemented by a special program of area-related social science courses.

There also is a variety of course offerings with an international focus offered by other teaching units including anthropology, business, communication, economics, education,

government, history, language, philosophy, and sociology that complement the school's degree programs.

Honor Society The International Relations Honor Society, Alpha Chapter of Sigma Iota Rho, was founded at American University on April 12, 1984. Sigma Iota Rho is an interdisciplinary scholarly recognition society founded for undergraduates whose course of study concentrates on international relations.

Graduate Study

The School of International Service offers an M.A. in International Affairs, an M.A. in International Communication, an M.A. in International Development, an M.A. in International Peace and Conflict Resolution, an M.A. in Environmental Policy, the Master of International Service, an M.S. in Development Management, and a Ph.D. in International Relations. In addition, there are dual degree programs combining the M.A. in International Affairs with a J.D., or the M.A. in International Peace and Conflict Resolution with a Master of Theological Studies, and an M.A. in International Affairs and Master of Business Administration joint degree. The school's graduate programs are grounded in the social sciences and reflect a strong commitment by the school's faculty to teaching and research.

Undergraduate Programs

B.A. in International Studies

Admission to the Undergraduate Program

Candidates for admission to the school must present evidence of excellent personal and academic qualifications. To be considered for freshman admission, an applicant should have earned at least a B average in secondary school. Cultural factors are considered in evaluating transcript and examination results. Other factors taken into account are leadership qualities, character, and personal interest. Students from other regionally accredited collegiate institutions, and students in other programs at American University who have completed the freshman year, should maintain a cumulative grade point average of 3.00 (on a 4.00 scale) to be considered for transfer to the school.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 73 to 77 credit hours with grades of C or better
- Up to 18 of these credit hours may also count toward fulfillment of General Education Requirements.

Foundation Courses (24 credit hours)

- 33.105 World Politics 3:1 (3)
- One course in U.S. politics from the following:
 - 53.110 Politics in the United States 4:1 (3-4)
 - 53.120 Introduction to American Politics (3-4)
- Two courses in economics (6 credit hours):
 - 19.100 Macroeconomics 4:1 (3)
 - 19.200 Microeconomics 4:2 (3)
- Two courses focusing on Western traditions (6 credit hours) from the following:
 - 07.100 European Art: From Cave to Cathedral 2:1 (3)
 - 07.205 Art of the Renaissance 2:2 (3)
 - 23.265 Literature and Society in Victorian England 2:2 (3)
 - 29.110 Renaissance and Revolutions:
 - Europe, 1400-1815 2:1 (3)
 - 29.200 Italian Civilization 2:2 (study abroad) (3)
 - 29.202 The Ancient World: Greece (3)
 - 29.203 The Ancient World: Rome (3)
 - 29.204 Medieval Europe (3)
 - 29.205 American Encounters: 1492-1865 2:2 (3)
 - 29.215 Social Forces that Shaped America 2:2 (3)
 - 29.235 The West in Crisis: 1900-1945 2:2 (3)
 - 29.245 Modern Jewish Civilization (3)
 - 34.205 Ancient and Medieval Jewish Civilization 2:2 (3)

- 53.105 Individual Freedom vs. Authority 2:1 (3)
- 53.303 Ancient Political Thought (3)
- 53.305 Modern Political Thought (3)
- 60.105 Western Philosophy 2:1 (3)
- 60.210 European Philosophy and the American Experiment 2:2 (3)
- 60.220 Moral Philosophy 2:2 (3)
- 60.221 Philosophy, Politics, and Society (3)
- 60.300 Ancient and Medieval Philosophy (3)
- 60.301 Modern Philosophy from Bacon to Hegel (3)
- 60.302 Nineteenth Century Philosophy (3)
- 60.303 Twentieth Century Philosophy (3)
- 61.105 The Religious Heritage of the West 2:1 (3)
- 65.215 The Rise of Critical Social Thought 2:2 (3)
- 73.110 Western Legal Traditions 2:1 (3)
- 73.225 American Legal Culture 2:2 (3)
- 76.150 Women's Voices through Time 2:1 (3)
- Two courses in non-Western area studies (6 credit hours). Select one course from each of two different areas listed below.

Africa

- 23.150 Third World Literature 3:1 (3)
- 33.250 Civilizations of Africa 3:2 (3)
- 33.265 Contemporary Africa (3)
- 61.210 Asian and African Religious Traditions 3:2 (3)

The Americas

- 29.241 Colonial Latin America (3)
- 29.242 Latin America since Independence (3)
- 33.276 Contemporary Latin America (3)
- 37.210 Latin America: History, Art, Literature 3:2 (3)
- 65.230 Conflict and Change in Latin America 3:2 (3)

Asia

- 29.250 Civilization and Modernization: Asia 3:2 (3)
- 33.161 Civilizations of Asia (3)
- 33.255 Japan and United States 3:2 (3)
- 61.185 Forms of the Sacred: Religions of the East 3:1 (3)
- 61.210 Asian and African Religious Traditions 3:2 (3)

Middle East

- 29.343 History of Israel (3)
- 33.245 The World of Islam 3:2 (3)
- 33.264 Contemporary Middle East (3)
- 61.370 Islam (3)
- 65.225 Contemporary Arab World 3:2 (3)

Russia and Central Eurasia

- 29.225 Russia: Past and Present 3:2 (3)
- 29.230 Early Russian History, 988–1700 (3)
- 29.231 Imperial Russia, 1700–1917 (3)
- 29.232 Twentieth Century Russia (3)
- 33.258 Contemporary Russia (3)

Core Field Courses (12 credit hours)

International Communication (3 credit hours)

- One course from the following:
 - 33.140 Cross-Cultural Communication 3:1 (3)
 - 33.340 Foundations of International Communication (3)
 - 33.341 Intercultural Communication (3)
 - 33.349 Selected Topics in International Communication (3)

International Development (3 credit hours)

- One course from the following:
 - 19.110 The Global Majority 3:1 (3)
 - 19.307 Political Economy of Economic Development (3)
 - 19.308 History of Economic Development (3)
 - 23.150 Third World Literature 3:1 (3)
 - 29.120 Imperialism and Revolution 3:1 (3)
 - 33.110 Beyond Sovereignty 3:1 (3)
 - 33.337 International Development (3)
 - 53.235 Dynamics of Political Change 3:2 (3)
 - 65.110 Views from the Third World 3:1 (3)
 - 65.230 Conflict and Change in Latin America 3:2 (3)
 - 65.285 Education for International Development 3:2 (3)

International Economics/International Economic Policy (3 credit hours)

- One course from the following:
 - 19.311 International Economics (3)
 - 33.215 Competition in an Interdependent World 3:2 (3)
 - 33.385 United States Foreign Economic Policy (3)

U.S. Foreign Policy (3 credit hours)

- One course from the following:
 - 33.382 The Analysis of U.S. Foreign Policy (3)
 - 33.384 American Defense and Security Policy (3)
 - 33.385 U.S. Foreign Economic Policy (3)

Research Methods (6–7 credit hours)

- 33.206 Introduction to International Relations Research (3)
- One course from the following:
 - 42.202 Basic Statistics (4)
 - 53.310 Introduction to Political Research (3)
 - 64.210 Introduction to Computer Information Systems (3)

Foreign Language (10–12 credit hours)

- Ten to 12 credit hours of one modern foreign language or intermediate level of competence

Area Specialization (9 credit hours)

- Three courses in one of the following regional areas: Africa, the Americas, Asia, Europe, the Middle East, and Russia and Central Eurasia
A minimum of two courses (6 credit hours) must be taken in SIS and a minimum of two courses must be taken at the 300 level or above.

Africa

- 03.339 Culture Area Analysis (3) (depending on focus)
- 23.150 Third World Literature 3:1 (3)
- 33.250 Civilizations of Africa 3:2 (3)
- 33.265 Contemporary Africa (3)

- 33.573 International Relations of Africa I (3)
- 33.574 International Relations of Africa II (3)
- 61.210 Asian and African Religious Traditions 3:2 (3)

The Americas

- 03.339 Culture Area Analysis (3) (area depending on focus)
- 29.241 Colonial Latin America (3)
- 29.242 Latin America since Independence (3)
- 29.340 Latin American Studies (3) (topics)
- 33.276 Contemporary Latin America (3)
- 33.374 Buenos Aires Seminar 3:2 (4) (study abroad)
- 33.577 International Relations of Latin America I (3)
- 33.578 International Relations of Latin America II (3)
- 37.210 Latin America: History, Art, Literature 3:2 (3)
- 37.357 Introduction to Latin American Literature (3)
- 65.230 Conflict and Change in Latin America 3:2 (3)

Asia

- 03.339 Culture Area Analysis (3) (area depending on focus)
- 29.250 Civilization and Modernization: Asia 3:2 (3)
- 29.347 Asian Studies (3) (topics)
- 33.161 Civilizations of Asia (3)
- 33.255 Japan and United States 3:2 (3)
- 33.366 Asian Power Rivalries (3)
- 33.559 Selected Topics in Cross-National Studies (3)
- 33.561 Modern China (3)
- 33.562 Modern Japan (3)
- 33.567 International Relations of East Asia I (3)
- 33.568 International Relations of East Asia II (3)
- 33.569 International Relations of Southeast Asia (3)
- 61.185 Forms of the Sacred: Religions of the East 3:1 (3)
- 61.210 Asian and African Religious Traditions 3:2 (3)
- 61.373 Hinduism (3)

Europe

- 29.110 Renaissance and Revolution: Europe, 1400–1815 2:1 (3)
- 29.200 Italian Civilization 2:2 (3) (study abroad)
- 29.201 The Italian Renaissance (3)
- 29.204 Medieval Europe (3)
- 29.221 History of England I (3)
- 29.222 History of England II (3)
- 29.238 France since Napoleon (3)
- 29.239 Modern Germany since 1848 (3)
- 29.318 Nazi Germany (3)
- 29.319 Holocaust (3)
- 29.320 War and Diplomacy: Napoleon to Bismarck (3)
- 29.326 European Society in the Nineteenth and Twentieth Centuries (3)
- 29.327 Twentieth Century Europe (3)
- 29.334 Victorian England (3)
- 29.336 History of Ireland (3)
- 29.337 British Studies (3) (topics)
- 33.259 Comparative Change in East Europe (3)
- 33.331 An Overview of the European Community (3)
- 33.355 The Relations of Western European Nations (3)

- 33.372 Brussels Seminar 3:2 (4) (study abroad)
- 33.373 Madrid Seminar 3:2 (4) (study abroad)
- 33.375 Berlin Seminar: Contemporary Germany: Politics and Economy 3:2 (3) (study abroad)
- 33.530 Colloquium on the Common Market (3)
- 33.533 Seminar on the European Community's Current Programs (3)
- 33.551 Politics and Society in Europe since 1945 (3)
- 33.557 Foreign Policy Formulation in West European States (3)
- 37.324 Civilisation Française I (3)
- 37.325 Civilisation Française II (3)
- 37.326 French Topics (3)
- 37.336 German Topics (3)
- 37.438 German Civilization I (3)
- 37.439 German Civilization II (3)
- 53.434 London Semester: British Politics and European Union 3:2 (3) (study abroad)

Middle East

- 29.343 History of Israel (3)
- 33.245 The World of Islam 3:2 (3)
- 33.264 Contemporary Middle East (3)
- 33.364 Modern Islam (3)
- 33.365 Arab-Israeli Relations (3)
- 33.571 International Relations of the Middle East I (3)
- 33.572 International Relations of the Middle East II (3)
- 61.370 Islam (3)
- 65.225 Contemporary Arab World 3:2 (3)

Russia and Central Eurasia

- 29.225 Russia: Past and Present 3:2 (3)
- 29.230 Early Russian History, 988–1700 (3)
- 29.231 Imperial Russia, 1700–1917 (3)
- 29.232 Twentieth Century Russia (3)
- 29.345 Russian Studies (3) (topics variable)
- 33.258 Contemporary Russia (3)
- 33.359 Russia and Central Eurasia in World Affairs (3)
- 33.558 Authoritarianism and Democracy in Russia (3)
- 37.200 Russia and the United States 3:2 (3)

Functional Field of Concentration (9 credit hours)

- Three courses in one of the following functional fields: International Business, International Communication, International Development, International Economics/International Economic Policy, International Politics, Islamic Studies, Peace and Conflict Resolution Studies, or United States Foreign Policy.
A minimum of two courses (6 credit hours) must be taken in SIS and a minimum of two courses must be taken at the 300 level or above.

International Business

Students may select either a general business or a business-area specific track, such as Accounting, Finance, International Business, Management, Marketing, and others. Please consult the SIS Undergraduate Office for details.

International Communication

- 33.140 Cross-Cultural Communication 3:1 (3)
- 33.340 Foundations of International Communication (3)
- 33.341 Intercultural Communication (3)
- 33.349 Selected Topics in International Communication (3)

International Development

- 19.110 The Global Majority 3:1 (3)
- 19.307 Political Economy of Economic Development (3)
- 19.308 History of Economic Development (3)
- 23.150 Third World Literature 3:1 (3)
- 29.120 Imperialism and Revolution 3:1 (3)
- 33.110 Beyond Sovereignty 3:1 (3)
- 33.337 International Development (3)
- 33.537 Special Topics in Development Management (3)
- 53.235 Dynamics of Political Change 3:2 (3)
- 65.110 Views from the Third World 3:1 (3)
- 65.285 Education for International Development 3:2 (3)

International Economics/International Economic Policy

- 19.311 International Economics (3)
- 19.371 International Economics: Trade (3)
- 19.372 International Economics: Finance (3)
- 33.215 Competition in an Interdependent World 3:2 (3)
- 33.389 Special Topics in Policy Analysis (3)
- 33.465 Contemporary International Trade and Investment Policies (3)
- 33.466 Contemporary International Monetary, Finance, and Energy Policies (3)
- 33.504 Multinational Corporations (3)

International Politics

- 29.120 Imperialism and Revolution 3:1 (3)
- 29.260 To Arms: People and Nations at War 3:2 (3)
- 29.320 War and Diplomacy: Napoleon to Bismarck (3)
- 29.321 War and Peace: Bismarck to Hitler (3)
- 33.110 Beyond Sovereignty 3:1 (3)
- 33.215 Competition in an Interdependent World 3:2 (3)
- 33.301 Theories of International Politics (3)
- 33.321 International Law (3)
- 33.322 Human Rights (3)
- 33.325 International Organization (3)
- 33.326 Between Peace and War (3)
- 33.355 Relations of Western European Nations (3)
- 33.366 Asian Power Rivalries (3)
- 33.504 Multinational Corporations (3)
- 33.518 Legacy of World War II Diplomacy (3)
- 33.519 Special Studies in International Politics (3) (topic approved by adviser)

Islamic Studies

- 33.245 World of Islam 3:2 (3)
- 33.364 Modern Islam (3)
- 33.596 Selected Topics course with permission of the student's adviser (3)
- 61.105 The Religious Heritage of the West 2:1
- 61.185 Forms of the Sacred: Religions of the East 3:1 (3)

61.370 Islam (3)

Peace and Conflict Resolution Studies

- 33.308 Introduction to Peace and Conflict Resolution (3) or 33.328 Approaches to Peacemaking (3)
- 33.110 Beyond Sovereignty 3:1 (3)
- 33.220 Confronting Our Differences/Discovering Our Similarities: Conflict Resolution 3:2 (3)
- 33.321 International Law (3)
- 33.322 Human Rights (3)
- 33.325 International Organization (3)
- 33.326 Between Peace and War (3)
- 33.396 Selected Topics course with permission of the student's adviser (3)
- 33.519 Special Studies in International Politics (3) (topic approved by adviser)

U.S. Foreign Policy

- 33.381 Foreign Policies of the Great Powers (3)
- 33.382 Analysis of United States Foreign Policy (3)
- 33.384 American Defense and Security Policy (3)
- 33.385 United States Foreign Economic Policy (3)
- 33.389 Special Topics in Policy Analysis (3) (topic approved by adviser)
- 33.396 Selected Topics course with permission of the student's adviser (3)
- 33.581 Schools of Thought in Contemporary United States Foreign Policy (3)
- 33.583 United States in World Affairs (3)
- 33.588 International Security and Arms Control (3)

Senior Seminar (3 credit hours)

- 33.400 Senior Seminar in International Relations (3) (topics vary by term)

Other Options

- Students may, where appropriate and with SIS approval, select special topics courses to fulfill requirements.
- Students may also apply up to 3 credit hours toward the major from an approved internship or cooperative education field experience.
- Study abroad course credits may be used toward the major with the approval of SIS.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill requirements for University Honors in International Studies, students may enroll in Honors sections of upper-level SIS courses, University Honors Colloquia taught by SIS faculty members or 33.350 Honors Colloquium in International Studies, or may arrange an Honors supplement to an SIS senior seminar. The school's Honors coordinator advises students in the University Honors Program regarding school options. See the section on the University Honors Program in this catalog for further details.

B.A. in Language and Area Studies

Offered jointly by the College of Arts and Sciences (CAS) and the School of International Service (SIS). Students may major in French/Europe, German/Europe, Russian/ Area Studies, or Spanish/Latin America. Refer to the Interdisciplinary Programs chapter for admission, degree, and course requirements for this program.

B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two tracks, either Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through course work spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Programs chapter in this catalog.

Combined Bachelor's Degree and M.A. in Environmental Studies

This program enables students to earn both a bachelor's degree and the M.A. in Environmental Policy. For a description of this program, see the Interdisciplinary Programs chapter.

International Politics and Foreign Policy Semester

Admission to the Program

Open to students from the Washington Semester member institutions and to juniors and seniors in good standing at American University. Recommended prerequisites for the program are at least one course in government or international relations and one in economics.

This program does not lead to a degree, but students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Requirements

- 33.491 International Politics and Foreign Policy Seminar I (4)
 - 33.492 International Politics and Foreign Policy Seminar II (4)
 - 33.493 International Politics and Foreign Policy Research Project (4)
 - 33.497 International Politics and Foreign Policy Internship (4)
- A regular course from among the evening offerings at American University may be substituted for either the internship or the research project.

Peace and Conflict Resolution Semester

Admission to the Program

Open to students from the Washington Semester member institutions as part of the Washington Semester Program and to juniors and seniors in good standing at American University.

Course Requirements:

- 33.486 Peace and Conflict Resolution Seminar I (4)
- 33.487 Peace and Conflict Resolution Seminar II (4)
- 33.488 Peace and Conflict Resolution Research Project (4)
- 33.489 Peace and Conflict Resolution Internship (4)

A regular course from among the evening offerings at American University may be substituted for either the internship or the research project.

Note: Participation in this semester fulfills all requirements for a Peace and Conflict Resolution Studies concentration for the B.A. in International Studies.

Minor in International Studies

Requirements

- A total of 21 credit hours; 15 credit hours should be taken in SIS and 12 of these should be at the 300 level or above.

Course Requirements

- 33.105 World Politics 3:1 (3)
- One course (3 credit hours) from the following:
 - 33.381 Foreign Policies of the Great Powers (3)
 - 33.382 The Analysis of United States Foreign Policy (3)
 - 33.384 American Defense and Security Policy (3)
 - 33.385 United States Foreign Economic Policy (3)
- One course (3 credit hours) from the following:
 - 33.258 Contemporary Russia (3)
 - 33.259 Comparative Change in East Europe (3)
 - 33.264 Contemporary Middle East (3)
 - 33.265 Contemporary Africa (3)
 - 33.276 Contemporary Latin America (3)
 - 33.355 The Relations of Western European Nations (3)
 - 33.359 Russia and Central Eurasia in World Affairs (3)
 - 33.366 Asian Power Rivalries (3)
- One course (3 credit hours) from the following:
 - 33.301 Theories of International Politics (3)
 - 33.321 International Law (3)
 - 33.325 International Organization (3)
 - 33.340 Foundations of International Communication (3)
 - 33.349 Selected Topics in International Communication (3)

- Nine credit hours in a functional field:
International Politics
International Business
International Communication
International Development
United States Foreign Policy
Peace and Conflict Resolution
International Economics/International Economic Policy
A regional area specialization: Africa, the Americas, Asia, Europe, the Middle East, or Russia and Central Eurasia

Combined B.A. and M.A. in International Studies

Admission to the Program

This program enables highly qualified students to earn, in five years of full-time study, both a B.A. in International Studies with a functional concentration in any area of specialization offered by the School of International Service, and a M.A. in International Affairs, International Communication, International Development, or International Peace and Conflict Resolution. This is accomplished by allowing certain specified

graduate level courses to be applied to the requirements of both degrees.

Admission to the combined B.A./M.A. program requires junior standing, a cumulative grade point average of 3.30 (on a 4.00 scale), a minimum 3.30 grade point average in SIS courses, a formal application, a written faculty recommendation, an essay on the student's academic interests and abilities in international affairs, and a review by the SIS Dean. The Graduate Record Examination (GRE) is not required.

Course Requirements

- All requirements for the B.A. in International Studies
- All requirements for the M.A. in International Studies, the M.A. International Communication, the M.A. in International Development, or the M.A. in International Peace and Conflict Resolution

Students may use 6 credits of approved graduate course work at American University to satisfy the requirements for both degrees. In addition, the school will recognize up to an additional 3 credits (for 39 credit hour SIS master's programs) or 6 credits (for 42 credit hour SIS master's programs) of approved course work completed at American University as satisfying graduate program degree requirements.

Graduate Programs

M.A. in International Affairs
M.A. in International Communication
M.A. in International Development
M.A. in International Peace and Conflict Resolution
M.S. in Development Management
Master of International Service

M.A. in Environmental Policy
M.A./M.B.A. in International Affairs and Business Administration
M.A. in International Affairs and J.D.
M.A. in International Peace and Conflict Resolution and
Master of Theological Studies

Ph.D. in International Relations

Admission to the Programs

Applicants must hold an accredited bachelor's degree with a cumulative grade point average of at least a B+ (3.30 or higher on a 4.00 scale) and should have had at least 24 credit hours of social science course work relevant to international studies. Students who do not meet these minimum requirements, if otherwise admissible, are assigned additional course work in excess of degree requirements specified at the time of admission.

Application deadline for fall admission is January 15; application deadline for spring admission (master's program only) is November 1. Admitted students may defer matriculation for up to two semesters provided that a written request for

deferment is submitted to and approved by both the SIS Graduate Office and the university Graduate Admissions Office.

All applicants are required to submit results of the aptitude section of the Graduate Record Examination (GRE). In addition, international applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). The minimum TOEFL score for full consideration is 600. (See the International Student Information chapter in this catalog for more information.) All applicants should plan to take the GRE and TOEFL no later than December to ensure full consideration of the application by the January deadline. LSAT scores will be accepted in place of the GRE for J.D./M.A. applicants.

All applicants must submit two letters of reference evaluating undergraduate academic performance and suitability for graduate study in international affairs. Cultural factors are considered in evaluating transcripts and examination results.

Requests for the transfer of a maximum of 6 graduate credit hours from other accredited institutions to be applied to a master's degree are considered after successful completion of 9 credit hours in the graduate program at American University. A minimum grade of B in each course is required for transfer. Transfer courses must have been completed within seven years of admission and must fulfill stated requirements of the degree program.

General Degree Requirements

- At least 36 credit hours of approved graduate course work with a cumulative grade point average of 3.00, including:
 - a) At least 15 credit hours in a major field for degree including one theory or schools-of-thought course and one graduate-level economics or international economic policy course appropriate to the field.
 - b) At least 9 credit hours in a related field selected from offerings in SIS or other teaching units of the university.
 - c) At least 6 credit hours in social science research methodology appropriate to the degree program.
 - d) At least 6 credit hours of research: thesis, substantial research paper, or practicum research completed with a grade of B or better.
- Passage of one written comprehensive examination in the major field for degree. To be eligible to take a comprehensive examination, a student must have advanced to candidacy and must have maintained at least a 3.00 grade point average (on a 4.00 scale) in all graduate course work. Information pertaining to comprehensive examinations is contained in the SIS Field Statements available in the SIS Graduate Office.
- Demonstration of research and writing skill through completion of a master's thesis, substantial research paper requirement, or a research practicum.

Thesis: 6 credit hours of thesis credit and submission of the thesis.

Substantial research paper requirement: internship and a substantial research paper: one 3 credit hour internship or cooperative education field experience, and one 3 credit hour substantial research paper taken in conjunction with a 600- or 700-level course or two substantial research papers taken in conjunction with a 600- or 700-level course.

Research practicum: 6 credit hours supervised by major field faculty advisers (by permission and specific arrangement).

- Proficiency in a modern foreign language:

Research competence in English and another language relevant to the student's career objectives must be certified by the university's Department of Language and Foreign Studies.

Advancement to Candidacy

Students may apply for advancement to candidacy for the M.A. degree upon completion of 9 hours of graduate course work with a B (3.00) average at American University.

Students qualifying for advancement must have removed all incomplete grades and satisfied all background deficiencies specified at the time of admission. At the time of advancement, students may request consideration of transfer of up to 6 credit hours from other master's work. If a student's grade point average drops

below 3.00 at the end of 18 hours or at any time thereafter, the student's candidacy for degree may be terminated.

When applying for advancement to candidacy, students formally designate their major field of study, foreign language, social science methodology sequence, and 6 hour research requirement in consultation with faculty advisers. Advancement to candidacy qualifies a student to sit for the comprehensive examination. Students applying to take comprehensive examinations must have qualified in their major field of study and must apply for advancement before announced deadlines.

Special Opportunities

Independent study courses, research internships, special lectures, and seminars enable students to meet renowned scholars and practitioners of international relations to discuss research and career interests. The SIS graduate journal, *Swords & Ploughshares*, publishes articles by faculty and graduate students relating to international affairs. Internships and cooperative education field experience are available for graduate credit. A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

AU-Ritsumeikan Exchange In March 1992, American University and Ritsumeikan University in Kyoto, Japan, began the first-ever dual master's degree program involving a Japanese and an American university. This program selects a limited number of students with both English and Japanese language proficiency to complete a 46-credit hour dual master's degree program in international affairs within a two-year period. Students working together as a cohort begin their studies at American University's School of International Service and complete their second year of study at Ritsumeikan University Graduate School of International Relations. A cross-cultural, global perspective is integral to the dual degree curriculum. Graduates of the program simultaneously receive a master's degree from American University and a master's degree from Ritsumeikan University.

M.A. in Environmental Policy

The M.A. in Environmental Policy provides a multidisciplinary foundation that is distinctive among master's-level programs. The curriculum is comprised of a common core, an area of concentration, one comprehensive examination, and a research capstone. The core contains 6 credit hours each of policy theory, economics, and research methodology, and 8 credit hours of science. The 9-credit hour area of concentration is tailored to fit the student's intellectual goals and professional objectives. The research capstone allows students to make an original contribution in their specialization. Graduates of this program are well grounded in both the theory and practice of environmental policy, with international and domestic focus. Refer to the Interdisciplinary Programs chapter in this catalog for specific admission, degree, and course requirements for this program.

M.A. in International Affairs

Major Field Concentrations

- Comparative and Regional Studies (CRS)
- International Economic Policy (IEP)
- International Politics (IP)
- United States Foreign Policy (USFP)

Degree Requirements

- Comparative and Regional Studies: 42 credit hours of approved graduate work
International Economic Policy: 39 credit hours of approved graduate course work
International Politics: 36 credit hours of approved graduate course work
United States Foreign Policy: 39 credit hours of approved graduate course work
- Advancement to candidacy (see general degree requirements)
- Proficiency in a modern foreign language (see general degree requirements)
Students with a major field concentration in Comparative and Regional Studies must demonstrate substantive language proficiency, at the FS-3 level at least, in a language appropriate for research in the geographic region of major focus.
- One written comprehensive examination (for information on eligibility and procedures, see general degree requirements)
- Thesis or substantial research paper requirement (see general degree requirements)

Course Requirements

Comparative and Regional Studies (CRS) (42 credit hours)

Major Field (21 credit hours)

Twenty-one credit hours in Comparative and Regional Studies consisting of:

- 33.672 Theories of International and Comparative Studies (3)
- 33.673 Comparative and Regional Political Economy (3)
or
one 3-credit course in international/global political economy
- 33.674 Integrated Seminar in Comparative and Regional Studies (3) (taken toward the end of the degree program)
- Twelve credit hours of course work on a single geographic region or comparative subject. Students may choose from the following regions or subjects: Africa, the Americas, Asia, Europe, the Middle East, Russia and Central Eurasia, Comparative Politics, or Islamic Studies. (See Field Statement for course recommendations and groupings pertaining to individual regions or subjects.)

Related Field (9 credit hours)

- Three courses from one of the other major field groups in SIS: International Politics (IP), International Development (ID), International Communication (IC), International Economic Policy (IEP), United States Foreign Policy (USFP), International Peace and Conflict Resolution (IPCR)

or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office, selected from the courses offered in other teaching units at American University.

Note: Economics, International Economic Policy (IEP), or International Political Economy (IPE) are highly recommended.

Social Science Research Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course (3 credit hours) appropriate to the student's research interests

Research and Writing Requirement (6 credit hours)

- 33.797 Master's Thesis Supervision (6)

or

Substantial research paper requirement (see general degree requirements)

Note: The thesis must relate to the regional and comparative aspects of the CRS major field concentration. At least 3 credit hours of the substantial research paper requirement should do likewise. A practicum research course must receive prior approval from a faculty adviser as a proper and useful addition to the major field concentration for the degree.

International Economic Policy (IEP) (39 credit hours)

Major Field (18 credit hours)

Eighteen credit hours in International Economic Policy, divided into theory, economics, and major field courses

Theory

- 33.615 Fundamentals of U.S. Foreign Economic Policy (3)

Economics

- Three credit hours from the following:
19.603 Introduction to Economic Theory (3)
An economic policy course in the Department of Economics (19.xxx) with prior approval of the International Economic Policy Field Coordinator, provided prerequisites are met.

Field

- 33.665 Contemporary International Trade and Investment Policies (3)
- 33.666 Contemporary International Monetary, Finance and Energy Policies (3)
- Six credit hours selected from the following:
33.504 Multinational Corporations (3)
33.519 Special Studies in International Politics (3) (topic approved by adviser)
33.565 Japanese-U.S. Economic Relations (3)
33.596/696 Selected Topics course with permission of the student's adviser (3)
33.630 Economic Policies of European Community (3)
Approved economics course (19.xxx)

Related Field (9 credit hours)

- Students must take three courses in a field related to IEP. These courses may be selected from among the core or principal courses offered in the other major field groups in SIS: Comparative and Regional Studies (CRS), International Politics (IP), International Development (ID), International Communication (IC), or United States Foreign Policy (USFP), International Peace and Conflict Resolution (IPCR) *or*

Three courses making up an optional related field (including international business) constructed in consultation with the student's faculty advisor or the SIS Graduate Office.

Social Science Research Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course appropriate to the student's research interests (3)

Research and Writing Requirement (6 credit hours)

- 33.797 Master's Thesis Supervision (6)

or

Substantial research paper requirement (see general degree requirements)

Note: The thesis or substantial research paper must relate clearly to the field of International Economic Policy.

Graduate Weekend Program in International Affairs

The School of International Service offers the M.A. in International Affairs with a concentration in International Economic Policy in a weekend format. A small cohort of students move through the 39-credit hour program together. For more information, call the Special Programs Advising Center at 202-885-2500.

International Politics (IP) (36 credit hours)**Major Field (15 credit hours)**

Fifteen credit hours divided into theory, economics, and subfields

Theory

- 33.601 Introduction to Theory in International Relations (3) *or*
- 33.604 Masterworks of International Relations (3)

Economics

- 19.603 Introduction to Economic Theory (3) *or* another 600- or 700-level economics (19.xxx) course, provided prerequisites are met

Subfields

- Nine credit hours in one of the following subfields:

International Political Economy

- 33.504 Multinational Corporations (3)
- 33.519 Special Studies in International Politics:
International Economic Policy Coordination (3)
- 33.565 Japanese-U.S. Economic Relations (3)

- 33.615 Fundamentals of U.S. Foreign Economic Policy (3)
- 33.630 Economic Policies of the European Union (3)
- 33.667 Global Political Economy (3)
- 33.678 Globalization: Power, Production and Culture (3)
- 33.696 Selected Topics course with permission of the student's adviser (3)

International Law and Organization

- 33.621 International Law and the Legal Order (3)
- 33.625 World Organization and World Order (3)
- 33.725 Seminar on Law in International Affairs (3)
- 33.729 Research Seminar in International Law and Organization (3)

Peace and Conflict Resolution

- 33.519 Special Studies in International Politics (3) (topic approved by adviser)
- 33.588 International Security and Arms Control (3)
- 33.596/696 Selected Topics course with permission of the student's adviser (3)
- 33.605 Theory of Cooperative Global Politics (3)
- 33.607 Peace Paradigms (3)
- 33.609 Conflict Analysis and Resolution: Theory and Practice (3)
- 33.610 Theory of Conflict, Violence and War (3)
- 33.611 International Negotiation (3)
- 33.710 Colloquium in International Relations (3)

Related Field (9 credit hours)

- Three courses from one of the other major field groups in SIS: Comparative and Regional Studies (CRS), International Development (ID), International Communication (IC), International Economic Policy (IEP), United States Foreign Policy (USFP), International Peace and Conflict Resolution (IPCR) *or*

Three courses making up an optional related field constructed in consultation with the student's faculty advisor or the SIS Graduate Office.

Social Science Research Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course (3 credit hours) appropriate to the student's research interests

Research and Writing Requirement (6 credit hours)

- 33.797 Master's Thesis Supervision (6)

or

Substantial research paper requirement (see general degree requirements) on a topic in the field of International Politics (may include 33.710 Colloquium in International Relations, which may be repeated once for credit with a different topic and instructor).

United States Foreign Policy (USFP) (39 credit hours)**Major Field (18 credit hours)**

Eighteen credit hours in United States Foreign Policy, divided into theory, economics and international economic policy, and major field courses.

Theory

- 33.689 Seminar in Foreign Policy Analysis (3) *or*
- 33.581 Schools of Thought in Contemporary U.S. Foreign Policy (3)

Economics and International Economic Policy

- 33.615 Fundamentals of U.S. Foreign Economic Policy (3) *or*
 - 19.603 Introduction to Economic Theory (3) *or*
- Another economic policy course (19.xxx) with prior approval of the U.S. Foreign Policy field coordinator

Field

- 33.682 United States Foreign Policy (3)
- Nine credit hours from the following:
- 33.519 Special Studies in International Politics (3) (topic approved by adviser)
- 33.581 Schools of Thought in Contemporary U.S. Foreign Policy (3)

- 33.583 United States in World Affairs (3)
- 33.588 International Security and Arms Control (3)
- 33.683 Congress and Foreign Policy (3)
- 33.684 National Security Policy (3)
- 33.685 U.S.–Russian/Eurasian Security Relations (3)
- 33.689 Seminar in Foreign Policy Analysis (3)

SIS topics courses relating directly to U.S. foreign policy, country- or region-specific courses, or select functional issues courses (law, illicit drugs, intelligence, arms control), or SIS topics courses dealing with international economic policy may be selected. With the prior approval of the USFP coordinator, a non-SIS course relating directly to U.S. foreign policy may be taken.

Related Field (9 credit hours)

- Three courses selected from among the core or principal courses offered by one of the other major field groups in SIS: Comparative and Regional Studies (CRS), International Politics (IP), International Development (ID), International Communication (IC), or International Economic Policy (IEP), International Peace and Conflict Resolution (IPCR).
- or*

Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office.

Social Science Research Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course appropriate to the student's research interests (3)

Research and Writing Requirement (6 credit hours)

- 33.797 Master's Thesis Supervision (6)
- or*

Substantial research paper requirement (see general degree requirements). *Note:* The thesis or substantial research paper must relate clearly to the field of U.S. Foreign Policy.

J.D. and M.A. in International Affairs

Graduates receive the J.D. degree from the Washington College of Law (WCL) and the M.A. in International Affairs from the School of International Service.

Admission to the Program

Students apply to both the Washington College of Law (WCL) and the School of International Service (SIS). Students may begin their studies in SIS after completing one full year of full-time study at WCL. SIS accepts LSAT scores in place of the GRE general scores normally required for admission. For specific criteria employed by SIS, see the graduate admission and degree requirements above. Admission to either of the participating teaching units in no way implies that admission to the other unit will necessarily be granted. Students who have been admitted to the M.A. in International Affairs may apply to WCL. For more information on admission requirements, contact the WCL Admissions Office at (202) 274-4101.

Degree and Major Requirements

- A total of 86 credit hours of course work in the Washington College of Law
- Up to 6 credit hours of School of International Service course work may be credited toward the J.D. requirement.
- A total of 36–42 credit hours of approved graduate work in SIS corresponding to M.A. major field concentration: Comparative and Regional Studies (CRS), International Economic Policy (IEP), International Politics (IP), or United States Foreign Policy (USFP).
- Up to 15 credit hours in WCL courses may be credited toward the M.A. requirements (see approved list in the SIS Graduate Office).
- Proficiency in one modern foreign language
- One comprehensive examination administered by the School of International Service.
- Thesis or substantial research paper requirement (see general degree requirements)

Course Requirements

- An approved major field theory course (3)
- Three to five relevant major field courses (9–15)
- An approved research methods course (3)
- 39.516 Legal Methods (4) (WCL)
- An approved economics course from WCL (3)
- Nine credit hours of related field courses in an SIS or other approved related field
- Six credit hours for a master's thesis or substantial research paper requirement options

M.A./M.B.A. in International Affairs and Business Administration

The School of International Service and the Kogod College of Business Administration jointly offer a program through which students may earn a master's degree in International Affairs with a concentration in Comparative and Regional Studies combined with a Master of Business Administration. Students must apply to and be accepted by both schools. Admission is for full-time students only. During the first year of the program, students will move through the program as members of a cohort. Students also participate in a required orientation and special workshops as part of the program.

See the Interdisciplinary Programs chapter of this catalog for a complete description of the program and degree requirements.

M.A. in International Communication

Admission to the Program

See general admission requirements for master's degrees.

Students applying for admission to this program must have had a strong undergraduate major or minor in social and behavioral sciences or communication. For further information, contact the International Communication Division.

Degree Requirements

- A total of 36 credit hours of approved graduate course work
- Advancement to candidacy (see general degree requirements)
- Proficiency in a modern foreign language (see general degree requirements)
- One written comprehensive examination in International Communication (for information on eligibility and procedures, see general degree requirements)
- Thesis or substantial research paper requirement (see general degree requirements and IC course requirements)

Course Requirements

Major Field (15 credit hours)

- 33.640 International Communication (3) (prerequisite for all major field courses)
- 33.641 Psychological and Cultural Bases of International Politics (3)
- 33.642 Cross-Cultural Communication (3)
- 33.644 Communication and Social and Economic Development (3)
- 33.645 International and Comparative Communication Policies (3)

Related Field (9 credit hours)

- Three courses approved by the IC faculty selected from one of the other major field groups in SIS: Comparative and Regional Studies (CRS), International Politics (IP), International Development (ID), International Economic Policy (IEP), United States Foreign Policy (USFP), International Peace and Conflict Resolution (IPCR)

or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser selected from courses offered in other teaching units at American University
Social Science Research Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3)
- One of the following:
 33.646 Information Systems and International Communication (3)
 33.695 Research Seminar in International Communication (3)

or
 One specific or topical methodology course appropriate to the student's research interests and approved by the IC faculty (3)

Research and Writing Requirement (6 credit hours)

- 33.797 Master's Thesis Supervision (6)
- or*
 Substantial research paper requirement (see general degree requirements) from the following:
 33.611 International Negotiations (3)
 33.643 Political Economy of International Communication (3)
 33.690 Independent Study Project in International Studies (1-6) with consultation and approval of the IC faculty
 33.691 Internship in International Affairs (3) *or*
 33.692 Cooperative Education Field Experience (3)
 33.696 Selected Topics course with permission of the student's adviser (3)
 33.740 Colloquium in International Communication (3)

Note: The thesis or substantial research paper must relate to the major field of International Communication.

M.A. in International Development

Admission to the Program

See general admission requirements for master's degrees.

Degree Requirements

- A total of 42 credit hours of approved graduate course work
- Certification of a modern foreign language (see general degree requirements)
- Thesis or substantial research paper requirement (see general degree requirements)
- Comprehensive examination requirement to be completed in conjunction with research and/or practicum (consult program office for details)

Course Requirements

Core Courses (15 credit hours)

- 19.661 Economic Development Policy (3) (Prerequisite: 19.603 Introduction to Economic Theory) *or*
 19.660 Survey of Economic Development (3) (Prerequisite: 19.500 Price Theory and 19.501 Income Theory)
- 19.603 Introduction to Economic Theory (3)

May be waived by an examination administered by the Department of Economics. This waiver reduces the total credit hours required for the program to 39 and total core course credit hours to 12.

- 33.636 Micropolitics of Development (3)
- 33.637 International Development (3)
- One of the following:
33.537 Special Topics in Development Management:
Urban Development (3)
- 33.650 World Economy and Sustainable Development (3)
- 33.635 Advanced Topics in Development Management:
Rural Development (3)

Related Field (15 credit hours)

Fifteen credit hours in related field of concentration:

- With the agreement of the student's faculty adviser, five courses must be selected from an approved list of courses from one concentration. Up to 6 credit hours in 33.638 Selected Topics in International Development Skills may be included. Examples of concentrations include, but are not limited to the following:

Community Development and Basic Needs

- 33.536 Special Topics in International Development:
Population, Migration and Development (3)
- 33.537 Special Topics in Development Management:
Urban Development (3) (if not taken in core)
- 33.635 Advanced Topics in Development Management:
Rural Development (3) (if not taken in core)
- 33.638 Selected Topics in International Development Skills (1)
- 33.648 Woman and Development (3)
- 65.679 Nonformal Education and Development (3)

Developmental Banking

- 19.564 Development Finance (3)
 - 19.610 Cost Benefit and Planning (3)
 - 19.632 Development Banking (3)
 - 19.635 International Capital Markets Workshop (3)
- additional course as approved by the student's adviser

Development Education

- 21.583 Curriculum Construction and Program Design (3)
- 21.625 Global and Multicultural Education (3)
- 21.631 Fundamentals of Management in Educational Organizations (3)
- 21.639 Effectiveness Leadership Skills (3)
- 21.678 Comparative and International Education (3)
- 65.635 Training Program Design (3)
- 65.679 Nonformal Education and Development (3)

Development Management

- 33.537 Special Topics in Development Management:
Managing Decentralization (3)
- 33.638 Selected Topics in International Development Skills (1)
- 54.610 Public Management (3)
- 54.513 Administration of International Programs (3)
- 54.614 Development Management (3)
- 54.633 Public Financial Management (3)

Economics and Finance and International Economic Policy

- 19.564 Development Finance (3)
- 19.610 Cost Benefit and Planning (3)
- 19.611 Survey of International Economics (3)
- 19.632 Development Banking (3)
- 19.671 International Economics: Trade (3)
- 19.672 International Economics: Finance (3)
- 33.504 Multinational Corporations (3)
- 33.615 Fundamentals of United States Foreign Economic Policy (3)
- 33.638 Selected Topics in International Development Skills (1)

Environment and Development

- 33.520 International Law and Organization (3)
 - 33.536 Special Topics in International Development:
Population, Migration and Development (3)
 - 33.649 Environment and Development (3)
 - 33.650 World Economy and Sustainable Development (3)
- additional course as approved by the student's adviser

Gender Studies and Development

- 19.574 Women in the Economy (3)
 - 33.536 Special Topics in International Development:
Population, Migration and Development (3)
 - 33.648 Women and Development (3)
 - 65.570 Sociology of Gender and the Family (3)
- additional course as approved by the student's adviser

Note: Students may propose other concentrations from one of the other major field groups in SIS (IP, IC, CRS, USFP) or from offerings in other teaching units with the approval of the faculty adviser and the IDP director.

Social Science Research Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course appropriate to the student's research interests and approved by the ID program

Research and Writing Requirement (6 credit hours)

- 33.797 Master's Thesis Supervision (6)
or
Substantial research paper requirement (see general degree requirements)

Special Opportunities

International Development Forum The School of International Service, in conjunction with the Washington Chapter of the Society for International Development, sponsors a weekly forum in which noted scholars, policy makers, and international development professionals are invited to interact on campus with students, faculty, and members of the Washington development community in discussions of current issues in the international development field.

M.A. in International Peace and Conflict Resolution

Admission to the Program

See general admission requirements for master's degrees.

Degree Requirements

The International Peace and Conflict Resolution (IPCR) program includes three components: building a sound academic foundation in the field; enabling students to concentrate in their particular area of interest; and ensuring that students integrate learning into a comprehensive body of knowledge that can be applied to professional interests.

- A total of 39 credit hours of approved graduate course work
- Advancement to candidacy (see general degree requirements)
- Proficiency in a modern foreign language (see general degree requirements)
- One written comprehensive examination in International Peace and Conflict Resolution (see general degree requirements)
- Thesis or substantial research paper requirement (see general degree requirements)

Course Requirements

Major Field (15 credit hours)

- 33.605 Theory of Cooperative Global Politics (3)
- 33.607 Peace Paradigms (3) (prerequisite for all major field courses)
- 33.609 Conflict Analysis and Resolution: Theory and Practice (3)
- 33.610 Theory of Conflict, Violence and War (3)
- 33.611 International Negotiation (3)

Economics (3 credit hours)

- 19.603 Introduction to Economic Theory (3) or other approved economics (19.xxx) course

Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3)
- 33.612 Research Seminar in Peace and Conflict Resolution (3) or other approved methods course

Related Field (9 credit hours)

- Three courses approved by the IPCR faculty from one of the major field groups in SIS: Comparative and Regional Studies (CRS), International Development (ID), International Communication (IC), International Economic Policy (IEP), International Politics (IP), United States Foreign Policy (USFP)

or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser selected from courses offered in SIS or other teaching units at American University

or

Three courses that make up an academically sound concentration defined by a central concept which allows the student to focus on a particular area of interest. Alternative related fields could include: Conflict Dynamics and Applications, Culture and Cross-Cultural Communication, Environmental Policy, International Relations and World Order, Multicultural Education, and Women's and Gender Studies.

Research and Writing Requirement (6 credit hours)

- 33.797 Master's Thesis Supervision (6)
- or
- 33.795 Master's Research Requirement (3) and 33.691 Internship in International Affairs (3) or 33.692 Cooperative Education Field Experience (3)

M.A. in International Peace and Conflict Resolution and Master of Theological Studies

A dual master's degree program is offered by the School of International Service and Wesley Theological Seminary. Graduates receive both the M.A. in International Peace and Conflict Resolution and the Master of Theological Studies.

Admission and Requirements

- Students must be admitted separately to each program
- Students may count up to 12 credit hours from Wesley toward the M.A. in International Peace and Conflict Resolution. With SIS faculty approval, 9 credit hours fulfill the related field requirement, and 3 credit hours count toward the research requirement.

Please refer to the Wesley Theological Seminary catalog for a description of the degree requirements for the Master of Theological Studies, or call the Admissions Office at 202-885-8652.

M.S. in Development Management

The M.S. in Development Management offers a unique opportunity for combining development and public administration to provide state of the art training and practice in development management, as presently being developed both in the United States and at important centers in the Third World. American University's Washington, D.C. location provides a special opportunity to become familiar with major international development organizations and to meet with noted scholars and practitioners active in the field.

Admission to the Program

See general admission requirements for master's degrees.

Applicants must have at least two years field experience working on development problems or projects in the United States, Western Europe, or in developing countries.

Degree Requirements

- A total of 42 credit hours of approved graduate course work. A student who has performed successfully for more than two years as a program or project manager, management analyst, personnel specialist, budget examiner, or in a significant managerial role above the trainee-professional level before admission to the program may apply through the director of the M.S. in Development Management program to the dean of SIS to have the total program requirements reduced by up to 6 credit hours. This application takes place as part of the student's advancement to candidacy (see general requirements) and must make reference to a number of areas in which the student has acquired basic competence. Credit earned as part of an internship program does not count in this provision.
- Certification of a modern foreign language (see general degree requirements)
- Practicum research: The research requirement for the degree is met by completing 6 credit hours of practicum research.
- Comprehensive examination requirement to be completed in conjunction with practicum research (consult program office for details)

Course Requirements**Core Courses (18 credit hours)**

- 19.661 Economic Development Policy (3) (Prerequisite: 19.603 Introduction to Economic Theory) *or* 19.660 Survey of Economic Development (3) (Prerequisite: 19.500 Price Theory and 19.501 Income Theory)
- 19.603 Introduction to Economic Theory (3)
May be waived by an examination administered by the Department of Economics. This waiver reduces the total credit hours required for the program to 39 and total core course credit hours to 15.
- 33.636 Micropolitics of Development (3)
- 33.637 International Development (3)
- 54.610 Public Management (special section for MSDM) (3)
- 54.614 Development Management (3)

Related Field (12 credit hours)

Twelve credit hours in a related field of concentration:

- With the agreement of the student's faculty adviser, four courses must be selected from an approved list of courses from one concentration as follows. Up to 6 credit hours in 33.638 Selected Topics in International Development Skills may be included.

Development Management and Information Systems

- 64.511 Concepts in Systems and Information (3)
- 64.515 Human Factors in Information Systems (3)
- 64.560 Systems Analysis and Design (3)
- 64.606 Quantitative Analysis for Information Systems (3)

Program and Project Management

- 33.537 Special Topics in Development Management:
Management of Decentralization (3)
Urban Development (3)

33.646 Information Systems and International Communication (3)

- 33.6 Managing Economic Policy Reform (3)
- 54.604 Public Program Evaluation (3)
- 54.608 Comparative Administrative Systems (3)
- 54.611 Organization Planning and Control (3)
- 54.613 Administration of International Programs (3)
- 54.633 Public Financial Management (3)

Note: Students may propose other options from one of the other major field groups in SIS (IP, IC, CRS, USFP) or from offerings in other teaching units only with the approval of the faculty adviser and the MSDM director.

Social Science Research Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3) or other general course in social science research methodology
- One specific or topical methodology course (3) appropriate to the student's research interests and approved by the M.S. program director

Research and Writing Requirement (6 credit hours)

- 33.693 Practicum: Action Research in Development Management (6) (must be completed with a grade of B or better.)

Special Opportunities

International Development Forum See the M.A. in International Development program, above.

Master of International Service (M.I.S.)

The Master of International Service is specifically designed for those with significant experience in international affairs. The program's two semester intensive period of study is complemented by opportunities for participating in an array of public dialogue and on-going research programs.

Admission to the Program

Applicants must hold an accredited bachelor's degree with a cumulative grade point average of at least B+ (3.30 or higher on a 4.00 scale). Students who do not meet these minimum requirements, if otherwise admissible, are assigned additional course work in excess of degree requirements specified at the time of admission. Students should also have significant professional experience, typically nine years.

Application deadline is May 1. Admitted students may defer matriculation for one year provided that a written request for deferment is submitted to and approved by both the SIS Dean's Office and the university Graduate Admissions Office.

All applicants are required to submit official transcripts from their undergraduate institutions and two letters of reference evaluating their suitability for the mid-career master's program in international service. International applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). Applicants should plan to take the TOEFL prior to December to ensure full consideration of the application by the May 1 deadline. Admittees without TOEFL scores of 600 or above must enroll in an English Language Institute (ELI) program

during the summer prior to program entrance. Finally, applicants must submit an essay outlining their significant professional experience, highlighting the background they would contribute to the program, and their motivation for graduate study. The essay should also contain a brief description of their intended program of study.

Degree Requirements

- At least 30 credit hours of approved graduate course work with a cumulative average of 3.00, including 24 credit hours in residence

Students with significant prior professional experience in international affairs may apply to the SIS Dean's Office to have the total program reduced by up to 6 credit hours, which will be applied to the independent study requirement. Such application must make reference to areas in which the student has acquired professional competence. Students seeking to use the significant professional experience clause are limited to a total of 6 credit hours, including any transfer credit.

- Non-thesis option: 33.686 Proseminar in International Affairs I and 33.687 Proseminar in International Affairs II as part of the 24 credit hours in residence; these courses also fulfill the tool of research requirement
- Comprehensive examination: completed in conjunction with 33.687 Proseminar in International Affairs (consult Program Office for details)

Course Requirements (30 credit hours)

- Eighteen credit hours (six courses) in residence selected in consultation with and approved by the SIS associate dean or division directors
- 33.686 Proseminar in International Affairs I (3)
- 33.687 Proseminar in International Affairs II (3)
- 33.690 Independent Study Project (6) approved by the SIS associate dean

Graduate Certificate in International Development Management

Admission to the Program

Open to graduate level students in special contract programs approved by the director of the International Development Program who have successfully completed the special prerequisite program in English, mathematics/statistics, computers, and economics.

Certificate Requirements

- Twenty-one credit hours of approved graduate study, with at least a 3.0 grade point average. Courses with grades of C- or D will not be accepted towards fulfillment of certificate requirements, although these grades will be included in the calculation of the cumulative grade point average.

Course Requirements (15 credit hours)

- 19.505 Quantitative Analysis of Economic Models (3) *or* 33.600 Introduction to Quantitative International Relations (3)
- 19.603 Introduction to Economic Theory (3)

- 33.636 Micropolitics of Development (3) *or* 33.637 International Development (3)
- 33.638 Selected Topics in International Development Skills (1) (two are required)
- 33.693 Practicum: Action Research in Development Management: Washington Practicum (1)
- 54.614 Development Management (3)

Elective Courses (6 credit hours)

- Two courses from the following:
19.660 Survey of Economic Development (3)
33.636 Micropolitics of Development (3) (if not taken above)
33.637 International Development (3) (if not taken above)
54.613 Administration of International Programs (3)

Other courses similar to the above may be substituted with prior approval of the director of the International Development Program.

Ph.D. in International Relations

Admission to the Program

The Doctor of Philosophy in International Relations degree program is designed to prepare graduates for careers in university teaching and research. The curriculum combines core offerings in international relations theory, comparative social theory and methodology with a structure that allows students considerable flexibility. Major emphasis is placed on research. In addition to completing the dissertation, students are encouraged to present conference papers, engage in collaborative work with faculty members and submit articles to refereed journals.

Applicants for the Ph.D. degree program may hold a bachelor's or master's degree or its equivalent in a field related to international relations. Applicants should present a prior cumulative grade point average that is substantially above B (3.50 or higher on a 4.00 scale) in a field relevant to international relations.

All applicants are required to submit results of the aptitude section of the Graduate Record Examination (GRE). In addition, international applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). The minimum TOEFL score for full consideration is 600 (see the International Student Information chapter in this catalog).

Note: Applicants should plan to take the GRE no later than the December administration each year to ensure consideration of their applications by the January 15 deadline.

Applicants for the Ph.D. degree are considered and admitted only for the fall semester each year. The school does not permit students to begin their doctoral work in the spring. Deferral of matriculation in the Ph.D. program is not permitted. In order to be considered for fall admission, applications and all supporting materials must reach the Office of Graduate Admissions no later than January 15. Admissions preference is given to applicants who plan to study on a full-time basis.

All applicants must submit at least three letters of reference which evaluate their graduate performance and their suitability

ity for undertaking doctoral study in international relations. Cultural factors are considered in making admissions decisions and in evaluating transcripts and examination results.

Doctoral students may transfer up to 30 credit hours of previous graduate course work earned at accredited institutions with minimum grades of B in each course. Previously earned graduate credits are applied to Ph.D. program requirements if they are relevant to students' programs and dissertation topics. Requests for transfer of graduate credit are considered at the time of advancement to candidacy. Credits completed more than seven years before the semester of matriculation are not transferable.

Degree Requirements

- A total of 72 credit hours of approved graduate course work, including at least 12 credit hours of dissertation supervision. A minimum grade point average of 3.25 in all course work is required to remain in good standing and to earn the degree.
- *Proficiency in one modern language*; language proficiency must be in an area relevant to the student's research. Certification is by university-administered examination.
- *Proficiency in social science research methodologies appropriate to the student's field of study and dissertation topic*. Normally this requirement is satisfied by completing 12 credit hours of courses in research methods, as described under Course Requirements, below.
- *Regular participation in the semi-monthly Ph.D. research seminar during the first three years of residency*. Students are expected to present the results of their ongoing research and to serve as discussants for papers presented by faculty and visiting scholars to the university.
- *Satisfactory completion of two written and two oral comprehensive examinations*.

The oral qualifying examination, normally given at the end of the first year of residency, examines students on theoretical, epistemological and methodological literature and issues in international relations and in comparative and cross-national studies. These areas are addressed in the core seminars that students normally complete during their first year of residence, although the scope of the examination is not limited to topics covered in the seminars. The oral qualifying examination evaluates students' preparation in subjects that are considered to be an essential foundation for doctoral study and research in the School of International Service.

Written field comprehensive examinations are taken in two major fields of study selected by the student. One field must be designated from the graduate examination fields offered by the School of International Service as Ph.D. level fields of concentration. A second field may be selected from offerings of SIS or from the offerings of other teaching units of the university that provide doctoral instruction. As an alternative, students may construct a special field, with permission of the director of doctoral studies and the advice of at least three qualified scholars. Two of these scholars must be members of the American University faculty; all three must agree in

writing to serve on an examining committee. Students are normally expected to complete their written field examinations no later than three years after entering the program.

The Integrative Oral Examination examines students on their dissertation proposals and on substantive issues, literature, theory, epistemology and methodology relevant to the proposed dissertation research. Examiners are qualified scholars designated by the director of doctoral studies, who chairs the examination. Two of the examiners must be members of the American University faculty. Usually, examiners for the integrative oral examination will be prospective members of the student's dissertation committee. Students are normally expected to complete their integrative oral no later than the end of the seventh semester after entering the program.

For details on scheduling comprehensive examinations and examination procedures, consult the director of doctoral studies or the SIS Graduate Office.

- *Advancement to candidacy*: to be advanced to candidacy, students must remedy any deficiencies specified at the time of admission, be certified as proficient in a modern foreign language, complete their social science research methodology requirement, declare their comprehensive examination fields of concentration and pass the oral qualifying examination.
- *Acceptance by the faculty of the School of International Service of a dissertation proposal*. A dissertation proposal must provide a justification for the dissertation research, review relevant literature, identify relevant theoretical, epistemological and methodological issues, and provide a detailed research design, including a timetable for completion of the work.

Dissertation proposals are first presented at the integrative oral examination. However, successful passage of the integrative oral examination and approval of the dissertation proposal are separate, although overlapping processes. After the integrative oral examination is passed, the dissertation proposal must be formally approved by the dissertation committee and by the dean.

Usually, the scholars selected as examiners also review the dissertation proposal and are the prospective members of the student's dissertation committee. Two members of the reviewing committee must be members of the American University faculty and one must be a faculty member of the School of International Service.

- *Completion of the doctoral dissertation and successful defense of the dissertation in an oral examination*. The dissertation must consist of high quality original research, directly relevant to the student's doctoral program. Dissertation committees comprise a minimum of three members, one of whom serves as chair and as the primary supervisor of the dissertation research. It is the responsibility of the student to secure the agreement of a full-time tenured or tenure track member of the School of International Service faculty to serve as the

chair of his or her dissertation committee. At least two members of dissertation committees must be full-time tenured or tenure track members of the American University faculty. The members of the committee must be approved by the dean of the School of International Service. Students must successfully defend their dissertation in an oral examination on an occasion to which the entire American University community is invited. Two weeks notice in the *American Reporter* satisfies this requirement (see the SIS Graduate Office for details). Students must present a completed draft of their dissertation for defense. They are responsible for having the final draft of their dissertation meet university style requirements. Dissertations must be approved by the dean of the School of International Service.

- *Statute of limitations:* American University's *Academic Regulations* provide that all work for the doctorate must be completed within five years from the date of first enrollment as doctoral student (seven years if the student entered a doctoral program with a bachelor's degree). Prior to the expiration of the time limit specified (or to the expiration of approved extensions) a student may petition for an extension of candidacy. Extensions are approved by the dean of the School of International Service, upon recommendation of the student's adviser and the director of doctoral studies. In any event, the totality of extensions will not exceed a three year period beyond the applicable duration of five or seven years.

Course Requirements

- International relations theory: doctoral students must take three doctoral seminars constituting a theory core:
33.701 Classical Theory in International Relations (3)
33.702 Social Theory in Comparative and International Perspective (3)
33.703 Contemporary Theories of International Relations (3)

- Social science research methodology: doctoral students must satisfy a 12 credit hour requirement in research methods, including:

33.704 Conduct of Inquiry in International Relations (3)
33.715 Seminar on Advanced Research Design (3)

Two other courses in social science methodology appropriate to the student's field of study and dissertation research, selected in consultation with and approved by the director of doctoral studies.

Note: Graduate level methodology courses taken at other universities may be counted in fulfilling this requirement only with permission of the director of doctoral studies.

- Doctoral level course preparation in two other comprehensive examination fields. Students must take at least two other doctoral level (33.7xx) seminars. It is normally expected that students will take these seminars in the fields they intend to offer for the written comprehensive examinations. Other options for meeting this requirement must be made in consultation with and approved by the director of doctoral studies.
- Field requirements: additional field requirements are described in the SIS program statements for major fields in International Politics (IP), Comparative and Regional Studies (CRS), United States Foreign Policy (USFP), International Communication (IC), International Development (ID) and International Peace and Conflict Resolution (IPCR).
- Research and writing requirement: the research and writing requirement is met by registering for at least 12 hours of 33.799 Dissertation Supervision and by successful completion of the dissertation.

School of Public Affairs

- Department of Government
- Department of Justice, Law and Society
- Department of Public Administration

Dean Cornelius M. Kerwin

Associate Dean for Academic Affairs Jenny G. McGough

Assistant Dean for Administrative Services

Elizabeth W. Lister

The School of Public Affairs is committed to education and research programs in the field of public affairs. An interest in public affairs reflects a concern for people and how they interact with government institutions and political systems. Students are able to pursue this interest through a comprehensive educational experience that includes classroom instruction, individual research, and practical professional training. Through its three departments—the Department of Government, Department of Justice, Law and Society, and the Department of Public Administration—the school provides a comprehensive and unified approach to the study of public affairs in the United States and around the world. Each program is designed to focus on specific career interests, including careers in government and not-for-profit organizations, but all are multidisciplinary, issue and policy oriented, and adapted to Washington's unique educational opportunities.

Washington is an ideal location for studying public affairs. As the site of national government and as a world capital, the city provides students with vivid evidence of the interrelationships of domestic and international politics. Students can observe first hand the political, economic, and environmental forces shaping public affairs and public policy. As an integral part of the curriculum, internships in private and public organizations lend a practical dimension to the academic programs and provide the opportunity to interact with policy makers. Washington's facilities for scholarly research and personal enrichment include such government institutions as the Library of Congress, the National Archives, and the Smithsonian Institution, as well as many departmental and agency libraries.

The School of Public Affairs, drawing on the facilities of the university, the Consortium of Universities of the Washington Metropolitan Area, and the Washington community, offers a unique combination of resources for study and practical experience in the field of public affairs. The school's comprehensive range of academic and professional programs leads to degrees at the bachelor's, master's, and doctoral levels.

Faculty

The school has more than 50 active full-time faculty members including both nationally recognized scholars and others distinguished by their public service. Augmenting the full-time faculty is an adjunct faculty of eminent government officials and public affairs practitioners who bring to the classroom the special insights acquired in their professional experience.

Undergraduate Study

Undergraduate students may plan their academic programs to meet personalized learning objectives. Recognizing that a multidisciplinary education is required to meet the ever changing nature of the public affairs profession, advisers often encourage students to take courses in other academic units.

Graduate Study

The graduate degree programs in the School of Public Affairs serve a number of diverse educational needs. Most master's programs educate students for specific professional careers in government and other nonprofit organizations at local and national levels. These programs emphasize managerial, analytical, and conceptual skills necessary for professional success in the public service. Others provide students with a general understanding of the academic disciplines related to public affairs. Doctoral programs are designed to prepare qualified individuals for professional appointments in teaching, scholarly research, and executive management and are offered in political science, public administration, and sociology; justice.

Internships and Cooperative Education Opportunities

The school encourages qualified students to work for course credit as interns in governmental, political, and private organizations. These internships are designed to give students practical involvement in political processes or action programs. For example, a student might work for a member of Congress, the Department of State, the Department of Justice, or for other organizations directly concerned with public policy. Students may also participate in the Cooperative Education Program, which combines course credit and practical experience. (See the Cooperative Education Program section in this catalog for more information.)

Independent Study Programs

The School of Public Affairs encourages students to engage in independent study projects related to their fields of interest. These projects include reading, research, and field work in the Washington area arranged directly with a faculty member, for which course credit is given.

Study Abroad

Through the World Capitals Program, the School of Public Affairs provides opportunities for study abroad in London, Rome, Copenhagen, Brussels, Paris, Madrid, Berlin, Prague, Moscow, Buenos Aires, Santiago, and Beijing semesters. In addition, summer sessions include courses, workshops, and tours abroad which are relevant to the curriculums.

Educational Resources

Computer-aided instruction and research is encouraged and facilitated by a variety of technical resources. The university operates quantitative teaching and research laboratories to introduce students to the use of computers, statistics, and mathematical methods in social research and management applications. These labs are staffed with graduate assistants who tutor new users and provide professional consulting to experienced users.

Through the labs, students have access to personal computers and to the university's mainframe computer. Software is provided for word processing, spreadsheets, graphics, statistics, mathematical modeling, and computer programming applications. An extensive selection of programs and languages is available on the mainframe for social science applications, including the Statistical Package for the Social Sciences (SPSS) and the Statistical Analysis System (SAS). As a member institution of the Inter-University Consortium for Political and Social Research, the school has access to thousands of social science data sets and maintains hundreds of these on tape at the university.

Honorary Societies

The school recognizes both academic and professional achievement by students and alumni through membership in national honorary societies. Pi Sigma Alpha, the national political science honor society, founded in 1920, is open to selected seniors and graduate students majoring in political science or international relations.

Alpha Phi Sigma is the national honor society for criminal justice. It recognizes scholastic excellence by undergraduate and graduate students in the justice field. Sigma Phi Omega, the university's prelaw honor society, is open to all qualified undergraduate students, sophomore and above.

Pi Alpha Alpha is the national honorary society for public affairs and administration. The School of Public Affairs has one of the 18 charter chapters. Graduate students completing their programs are invited to join if they meet the academic standards set by the chapter.

Undergraduate majors are also eligible for Phi Beta Kappa.

Career and Professional Opportunities

A public affairs education prepares students for a variety of careers. Graduates serve public or private agencies where they assist in creating or implementing policy alternatives. Some teach public administration, political science, justice, and related courses at universities, colleges, or secondary schools. Others seek opportunities in private-sector professions not formally related to their degree programs. Alumni are serving as city managers, lawyers, management analysts, investigators, legislative assistants, lobbyists, budget or systems analysts, newspaper editors, research associates, professors, and government officials, appointed and elected.

Center for Congressional and Presidential Studies

Founded in 1980, the Center for Congressional and Presidential Studies has become the focus of research and training in the Department of Government. A unique institution, the center brings together scholars, students, public officials, journalists, and leaders in public and private organizations to study Congress and the presidency through scholarly forums, colloquiums, and seminars on current topics.

The center's many activities provide an opportunity for graduate students to work on research projects, assist with publications, and gain valuable practical and scholarly experience.

Campaign Management Institute

This innovative institute was designed by the school's faculty, together with leading Democratic and Republican political managers and campaign consultants to serve as a foundation for graduate students, campaign workers, political activists, and legislative staffers interested in campaign management.

The institute's intensive program covers campaign organization, strategy, research, fund raising, polling, paid media, earned media, general management, targeting, campaign law and ethics, computer technology, and get-out-the-vote. Through this program, many students have found placement in national, state, and local campaigns as well as in survey research and campaign management firms.

Lobbying Institute

Modeled on the Campaign Management Institute, the Lobbying Institute provides students with an intensive exploration into the art and craft of the lobbying profession. The two-week format allows students to become totally immersed in the strategies and tactics of organized interests attempting to influence the federal policymaking process. In addition to the applied aspects of the lobbying profession, the art and craft of lobbying is placed in a more theoretical perspective by linking the real world of political influence with the issues of democratic political representation.

Department of Government

Chair Karen O'Connor

Academic Advisers Athena Argyropoulos, Robert Briggs,
Anne Kaiser

Full-Time Faculty

Professor Emeritus E.H. DeLong (Dean Emeritus), J. Fishel,
M. Greenberg, M. Meadows, E.V. Mittlebeeler, N.S. Preston,
E.S. Robinson, M.P. Walker

Professor S.W. Hammond, J.J. Hanus, W.M. LeoGrande,
K. O'Connor, A. Perlmutter, J.A. Thurber

Associate Professor C.A. Degregorio, G. Ivers, R.A. Lane,
C.J. Nelson, S. Newman, R.G. Shaiko, D. Singerman,
P.L. Sykes

Assistant Professor J. Boiney, B. Koziak, A. Levine,
W. Murphy, J. Soss, S. Taylor

Distinguished Adjunct Professor in Residence J. Bond

The Department of Government makes use of the special opportunities available from its location in the nation's capital for the teaching and study of political science and public affairs.

The department's undergraduate program focuses on government and public affairs as an aspect of a broad liberal arts education. It prepares the student for an enlightened role in national, community, and world affairs. This program can lead to a career in public affairs or any private or not-for-profit area that deals with the growing interrelationship between the public and private sectors. It also provides a solid and comprehensive foundation for the student who plans to pursue further education before entering a career in politics or public affairs, governmental administration, law, teaching, or research.

The graduate program is designed to prepare students for academic or professional careers in public affairs or policy analysis. The master's and doctoral programs in political science are flexible in order to meet the educational needs of a diverse student population.

B.A. in Political Science

Admission to the Program

New freshmen and transfer students are admitted through the university's Office of Admissions. Students currently enrolled in the university who wish to transfer into the Department of Government or develop a double major or minor should have a grade point average of 2.00 or higher and the approval of the undergraduate academic adviser.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 54 credit hours with grades of C or better

Course Requirements

- 53.110 Politics in the United States 4:1 (3-4) *or*
53.120 Introduction to American Politics (3-4)
- One of the following political theory courses:
53.105 Individual Freedom vs. Authority 2:1 (3)
53.303 Ancient Political Thought (3)
53.305 Modern Political Thought (3)
53.306 American Political Thought (3)
- One of the following comparative politics courses:
53.130 Comparative Politics 3:1 (3)
53.231 Third World Politics (3)
53.232 Politics of Industrial Societies (3)
- One of the following international affairs courses
33.105 World Politics 3:1 (3)
33.206 Introduction to International Relations Research (3)
33.110 Beyond Sovereignty 3:1 (3)
33.381 Foreign Policies of the Great Powers (3)
33.382 The Analysis of United States Foreign Policy (3)
- One of the following research methodology courses:
19.310 Introduction to Econometrics (3)
42.202 Basic Statistics (4)
53.310 Introduction to Political Research (3)
65.320 Introduction to Social Research (3)
- Political science course requirements: 21 credit hours at the .200 or .300 level with no more than 6 hours from internships, cooperative education, independent study, independent reading, Washington Semester, and American University study abroad programs.
- Six additional credit hours at the .400 or .500 level
- Related social science requirement: 12 credit hours above the introductory level from at least two of the following disciplines: economics, history, international relations or foreign policy, sociology, and specified courses in American studies, anthropology, communication, justice, philosophy, and psychology

Note: Political science majors may count up to three courses offered by the School of International Service (SIS) in addition to 33.105, 33.110, 33.381, or 33.382 toward the major and related course requirements. Students using two SIS courses for the major are limited to one SIS course for the related course requirements.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Interdisciplinary Studies: Communication, Legal Institutions, Economics, and Government (CLEG)

Admission to the Program

This interdisciplinary major is designed for students who want a breadth of background necessary to participate effectively in decision making for public affairs and the practical training necessary to deal with social problems as public issues.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 57 credit hours with grades of C or better

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.310 Public Speaking (3)
- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 53.110 Politics in the United States 4:1 (3-4) *or* 53.120 Introduction to American Politics (3-4)
- 53.391 Internship (3-6)
- 53.489 CLEG Seminar (3)
- 73.104 Introduction to Systems of Justice (3)
- One of the following:
53.105 Individual Freedom vs. Authority 2:1 (3)
53.305 Modern Political Thought (3)
53.306 American Political Thought (3)
- One of the following:
53.215 Civil Rights and Liberties 4:2 (3)
53.352 Law and the Political System (3)

- Twenty-four additional credit hours, including twelve hours at the .300 level or above, selected from a list of approved courses in communication (17.xxx), legal institutions (73.xxx), economics (19.xxx), and government (53.xxx). The list of approved courses is available in the Department of Government office.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two tracks, in Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through course work spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Programs chapter in this catalog.

Washington Semester in American Politics

Admission to the Program

This one semester program draws on the unique environment of Washington, D.C. to offer students a full program of seminars with decision makers and others involved in the policy process, an internship in a governmental office or with an interest group, and either a research project or a course elected from regular university offerings. The program is open to students from American University and affiliated institutions.

Requirements for admission to the program are: (1) nomination by a Washington Semester faculty representative; (2) a minimum grade point average of 2.50 (on a 4.00 scale); (3) at least one course in American national government or equivalent; and (4) at least second-semester sophomore standing at the time of participation. Selection is competitive. Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Course Requirements

- 53.410 Washington Semester in American Government and Politics Seminar I (4)
- 53.411 Washington Semester in American Government and Politics Seminar II (4)
- 53.412 Washington Semester in American Government and Politics Research Project (4) *or* other approved course
- 53.416 Washington Semester in American Government and Politics Internship (4)

Minor in Political Science

The minor in Political Science is intended for students who wish to increase their knowledge of an area that is a constant part of their lives and achieve enlightened citizenship.

Course Requirements

- 53.110 Politics in the United States 4:1 (3-4) *or* 53.120 Introduction to American Politics (3-4)
- One of the following political theory courses:
53.105 Individual Freedom vs. Authority 2:1 (3)
53.303 Ancient Political Thought (3)
53.305 Modern Political Thought (3)
53.306 American Political Thought (3)
- Fifteen credit hours in other Department of Government (53.xxx) courses, including at least 9 credit hours at the .300 level and at least 3 credit hours at the .400 or .500 level

Combined B.A. and M.A. in Political Science

This program enables qualified students to earn, in a continuous plan of study, both the B.A. in Political Science or a related discipline and the M.A. in Political Science.

Admission to the Program

Admission to the combined B.A./M.A. program requires junior standing, a cumulative grade point average of 3.00 (on a 4.00 scale), a completed application form (available from the Department of Government), a written faculty recommendation, an essay on the student's interests and abilities in political science and an interview with the Department of Government graduate adviser.

Acceptance and participation in the B.A./M.A. program does not automatically guarantee acceptance into the graduate program. Students must apply for admission to the graduate program through the Graduate Admissions Office no later than the last undergraduate semester. The Graduate Record Examination (GRE) is required for admission to the M.A. program.

Course Requirements

- All requirements for the B.A. in Political Science or related discipline
- All requirements for the M.A. in Political Science

Students may take up to 6 credit hours in .500 or .600 level courses specified by the Department of Government as applica-

ble to both the B.A. and M.A. degrees. Recommended preparatory courses for the combined B.A./M.A. program include courses in political science and statistics.

M.A. in Political Science

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination. All applicants are evaluated on the basis of scholastic achievement in their last 60 credit hours of undergraduate work, two letters of recommendation and an essay on career interest. Applicants who wish to be considered for departmental honor awards must apply for full-time status.

Degree and Major Requirements

- A total of 33 credit hours of approved graduate work
- A written four hour comprehensive examination in the major field

Fields

American Politics, Applied Politics, or Comparative Politics

Course Requirements

American Politics

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.611 Political Research (3)
- 53.650 Political Analysis (3)
- Nine credit hours selected from political science or other disciplines, which may include 3 credit hours of 53.692 Cooperative Education Field Experience

Fifteen credit hours in American politics to include the following:

- 53.651 The Legislative Process (3) (or another course on Congress with permission of the student's adviser)
- 53.652 The Presidency and the Executive Branch (3)
- An approved course on public opinion, political behavior, elections, parties and interest groups, 53.520 Advanced Studies in Campaign Management (4), or 53.523 The Art and Craft of Lobbying (4)

Applied Politics

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.620 Applied Politics and American Public Policy
- 53.650 Political Analysis (3)
- 53.520 Advanced Studies in Campaign Management (4) *or* 53.523 The Art and Craft of Lobbying (4)
- Two 1 credit courses from the following:
Campaign Management Institute (53.520)
Campaign Field (1)
Strategy, Theme and Message (1)
Political Writing (1)
or other approved topics

Lobbying Institute (53.523)

Survey Research, Focus Groups, Media (1)

High Tech Lobbying (1)

Grassroots Lobbying (1)

or other approved topics

• Eighteen credit hours from:

53.520 Advanced Studies in Campaign Management (4) *or*
53.523 The Art and Craft of Lobbying (4)
(if not taken to fulfill requirement above)

53.525 Congress and the Executive (3)

53.540 Political Parties, Interest Groups, and Lobbying (3)

53.541 The Politics of Mass Communication (3)

53.560 Intergovernmental Relations (3)

53.651 The Legislative Process (3)

53.652 The Presidency and the Executive Branch (3)

53.654 Political Behavior (3)

53.656 Voting Behavior, Elections and Campaigns (3)

53.674 Constitutional Law and Politics (3)

53.692 Cooperative Education Field Experience (3)

or other SPA comparative politics course (3)

Comparative Politics

• 53.610 Introduction to Quantitative Methods in Political Science (3)

• 53.611 Political Research (3)

• 53.632 Classics of Comparative Politics (3)

• 53.650 Political Analysis (3)

• One political theory course (3)

• Nine credit hours from the following:

53.633 Political Institutions in Comparative Perspective (3)

53.634 Democratization: Past, Present, Future (3)

53.635 Social and Political Movements, Ethnicity and
Nationalism (3)

or other SPA comparative politics course (3)

• Nine credit hours selected from political science or other disciplines, which may include 3 credit hours in 53.692 Cooperative Education Field Experience

Ph.D. in Political Science**Admission to the Program**

Applicants are considered and admitted only for the fall semester each year. February 1 is the deadline for application for admission. All applicants must submit scores from the verbal and quantitative sections of the Graduate Record Examination. The normal minimum for consideration is a grade point average of 3.20 (on a 4.00 scale) in all previous academic work. Preference will be given to applicants for full-time study, although highly qualified students may be admitted for part-time study.

Major Fields

American Politics, Comparative Politics, Policy Analysis,
Public Administration, and Justice, Law and Society

Degree and Major Requirements

- A total of 72 credit hours of approved graduate work is required for students entering the program with a bachelor's degree; a minimum of 48 credit hours is required of students who have completed an approved master's degree.
- Advancement to candidacy is accomplished by successfully completing a written qualifying examination at the end of the second semester of study.
- Students take written comprehensive examinations in American Politics and one of the remaining major areas. They master the subject matter of the third through formal course work. Following completion of the written examinations, all students take an oral examination on their entire program of study before a committee of faculty members.

The remaining major areas include Comparative Politics, Public Administration, Policy Analysis, Justice, Law and Society, and any Ph.D. field in the School of International Service (except Comparative and Regional Studies) with the approval of the SPA Director of Doctoral Programs.

Two of the three major areas must be offered by the School of Public Affairs. As long as this requirement is satisfied, students seeking the Ph.D. in political science may include as a comprehensive or non-comprehensive area any Ph.D. field offered at American University, subject to the approval of the SPA director of doctoral programs.

- The Ph.D. is fundamentally a research degree. Understanding scientific inquiry and correctly using research techniques require extensive preparation. All students in the program take four courses designed to help doctoral students comprehend the nature of science and master tools of research:
53.612 Conduct of Inquiry I (3)
53.613 Conduct of Inquiry II (3)
53.614 Research in Political and Administrative Behavior (3)
53.704 Approaches to Political Understanding (3)

Each student selects a specialization in which to complete an original research project under the direction of program faculty and write a dissertation. Students may choose research projects within one of the major areas or select a research specialization from one of the other graduate fields within the school.

Each student prepares a research proposal for the dissertation project. It is the responsibility of the student to secure the agreement of a School of Public Affairs full-time tenured or tenure-track faculty member to serve as the chair of the dissertation committee. One of the two other members of the committee may be from outside SPA. As part of this process, each student must publicly defend the research proposal before the dissertation committee and other interested faculty. The committee and the SPA director of doctoral programs (acting for the dean) must approve the defense and the research proposal. The topic covered by the proposal must be related to ongoing research or publications of the supervising faculty.

As work on the dissertation project progresses, each student registers for a total of 6–12 credit hours of directed study.

Substantive course work may be used as part of this requirement where it contributes directly to the research specialization and is specifically recommended by the dissertation committee chair.

Upon completion of the research and the written dissertation, the candidate submits his or her manuscript to the dissertation committee for review. If the committee members approve the manuscript, the candidate must complete an oral defense of the dissertation and the general field in which it lies before the committee and other interested faculty. The committee determines conclusively at this point whether the dissertation and examination are acceptable.

The dissertation must consist of high quality original research directly relevant to the student's doctoral program. A dissertation proposal may be rejected if the topic does not address a major research issue in political science or public administration, the research design is inadequate, the methodology is inappropriate, or because no full-time tenured or tenure-track faculty member in the School of Public Affairs is academically competent or available to supervise the project. If the candidate fails to maintain satisfactory progress toward completion of the dissertation, his or her candidacy may be terminated.

Course Requirements

Major Field in American Politics:

- 53.710 Seminar in American Politics (3)

Other Major Fields:

- Two proseminars selected from:
53.720 Seminar in Policy Analysis (3)
53.730 Seminar in Comparative Politics (3)
54.710 Seminar in Public Administration (3)
73.710 Seminar in Justice, Law and Society (3)

Students entering the Ph.D. program with a master's degree in political science or public administration may petition the SPA director of doctoral programs to take only two of the required seminars.

For all fields:

- Two or three (depending on the area) additional courses in each of the two written comprehensive areas
- An additional course in the non-comprehensive area
- Four courses in research design and methodology:
53.612 Conduct of Inquiry I (3)
53.613 Conduct of Inquiry II (3)
53.614 Research in Political and Administrative Behavior (3)
53.704 Approaches to Political Understanding (3)
- Remaining 6-12 credit hours on the dissertation and, for those entering the program with a bachelor's degree, additional graduate level courses

Department of Justice, Law and Society

Chair Richard R. Bennett

Academic Advisers Linda Spicer, Margaret Stanton

Full-Time Faculty

University Professor R.J. Simon

Professor Emeritus R.A. Myren, A.S. Trebach

Professor D. Aaronson, R.R. Bennett, B. Forst, R. Johnson,

J.P. Lynch I. Robbins, D.J. Saari, L.L. Shelley, E.C. Viano,

R.L. Weiner

Research Professor A.D. Biderman

Associate Professor D. Dreisbach, D. Golash

Research Associate Professor C. Cooper, J. Trotter

Assistant Professor D. Fagelson, D.S. Fain, J. Nelson,

L. O'Melinn

Distinguished Adjunct Professor in Residence R. Fosen

The Department of Justice, Law and Society (DJLS) has one of the oldest programs in the field of justice in the United States. The full-time faculty in the department have educational backgrounds in law, criminology, criminal justice, philosophy, economics, political science, sociology, and social work. The department offers two Bachelor of Arts degrees, in Justice and in Law and Society; a Master of Science degree in Justice, Law and Society; a Ph.D. in Sociology: Justice; a Jus-

tice, Law and Society doctoral field in the Ph.D. programs in Public Administration and in Political Science; and a dual Juris Doctor and Master of Science program with the Washington College of Law.

The B.A. in Justice analyzes the foundations, functions, policies and procedures of justice. Crime and deviance are major policy concerns in American society, and systems of justice are the major public policy response for dealing with these problems. Cross cultural and international perspectives are brought to bear when they shed light on the nature of crime and deviance in America or on the workings of American systems of justice. The B.A. in Law and Society is an interdisciplinary program that examines the role of law as it permeates social, political, and economic institutions. The complex relation of law and justice, broadly conceived, is the central consideration in this program of study. Drawing on the social sciences and humanities, this curriculum offers an historical and international perspective on legal issues. Both undergraduate majors can be considered prelaw majors.

The M.S. in Justice, Law and Society merges the central concerns of the undergraduate degrees offered in DJLS. The M.S. degree examines problems of justice from the vantage point of two concentrations: Justice and Public Policy, and Law and Society. The M.S. in Justice, Law and Society serves as both a terminal degree and a pre-doctoral degree. Students who wish to pursue careers in justice or related agencies will

find the public policy thrust of the program to be of most immediate interest, but courses offered in the Law and Society concentration, which bear directly or indirectly on the justice system, will be germane to them as well. Conversely, students with a primary interest in advanced graduate work studying the general and theoretical ramifications of law and society will find it helpful to be grounded in the practical considerations raised by the Justice and Public Policy concentration. In both areas there is an emphasis on understanding, evaluating, and, where appropriate, conducting research. Graduates who go on for doctoral or professional study are equipped to pursue rigorous graduate work in programs that emphasize justice or law and society, as well as in programs that merge these concerns.

The department's programs prepare students for law school and further graduate study, as well as for entry-level positions and professional careers in the justice field. Washington, D.C. provides a constant source of cooperative education and internship placements, which often point the way to challenging employment.

B.A. in Justice

Admission to the Program

New freshman and transfer students are admitted through the Undergraduate Admissions Office. Current students in good academic standing who wish to transfer into the department or develop a double major may do so through a formal declaration of major.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 48 credit hours with grades of C or better

Course Requirements

Twenty-one credit hours from the following courses:

- 73.100 Justice in America 4:1 (3) *or*
- 73.104 Introduction to Systems of Justice (3)
- 73.103 Critical Issues in Justice (3)
- 73.205 History and Philosophy of Criminology (3)
- 73.220 Cities and Crime 2:2 (3) *or*
- 73.206 Justice and Deviant Behavior (3)
- 73.307 Justice, Law, and the Constitution (3)
- 73.309 Justice and Public Policy (3)
- 73.380 Introduction to Justice Research (3) (prerequisite: 42.202 Basic Statistics)

Twenty-seven credit hours from the following courses with at least 15 credit hours at the .300 level or above.

- One course from each of the four cluster areas:

Justice, Criminology and Deviance

- 73.206 Justice and Deviant Behavior (3)
- 73.215 Violence and Institutions 4:2 (3)
- 73.253 Juvenile Delinquency: Causes, Prevention and Treatment (3)
- 73.303 Drugs, Alcohol and Society (3)
- 73.401 Criminal Behavior: A Psychosocial Analysis (3)
- 73.517 Victimology (3)
- 73.551 Comparative Justice Studies Abroad (3)

Justice and Legal Process

- 73.110 Western Legal Tradition 2:1 (3)
- 73.225 American Legal Culture 2:2 (3)
- 73.308 Justice, Morality and the Law (3)
- 73.311 Introduction to Forensic Science (3)
- 73.342 Judicial Administration (3)
- 73.352 Psychiatry and the Law (3)
- 73.382 Determination of Fact (3)
- 73.420 Legal Reasoning (3)
- 73.458 The Juvenile and the Law (3)
- 73.501 The Concept of Justice (3)
- 73.502 The Concept of Law (3)

Justice, Law Enforcement and Public Policy

- 73.210 Policing in America: An Introductory Survey (3)
- 73.211 Contemporary Issues in American Law Enforcement (3)
- 73.313 Organized Crime (3)
- 73.315 White-Collar and Commercial Crime (3)
- 73.412 Law and the Corporate World (3)
- 73.513 Law and Economics (3)
- 73.550 Drugs, Crime, and Public Policy (3)

Justice, Corrections and Punishment

- 73.200 Deprivation of Liberty 4:2 (3)
- 73.230 Corrections in America (3)
- 73.332 Corrections and the Constitution (3)
- 73.403 Concepts of Punishment (3)
- 73.431 The Prison Community (3)

- The remaining 15 credit hours may be selected from any one or more of the clusters. A total of 9 credit hours of internships, cooperative education placements, independent study, independent reading, Washington Semester or American University study abroad programs may be applied to this requirement, with no more than 6 credit hours of course work in any one category.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Law and Society

Admission to the Program

New freshman and transfer students are admitted through the Office of Admissions. Current students in good academic standing who wish to transfer into the department or develop a double major may do so through a formal declaration of major.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 48 credit hours with grades of C or better

Course Requirements

Twenty-one credit hours from the following courses:

- 19.100 Macroeconomics 4:1 (3)
 - 73.103 Critical Issues in Justice (3)
 - 73.110 Western Legal Tradition 2:1 (3)
 - 73.225 American Legal Culture 2:2 (3) *or*
73.310 The Legal Profession (3)
 - 73.307 Justice, Law, and the Constitution (3)
 - 73.380 Introduction to Justice Research (3) (prerequisite:
42.202 Basic Statistics)
 - 73.402 Comparative Systems of Law and Justice (3)
- Twenty-seven credit hours from the following courses with at least 15 credit hours at the 300 level or above.
- One course from each of the five cluster areas:

Law and the Justice System

- 33.322 Human Rights (3)
- 53.321 Congress and Legislative Behavior (3)
- 73.100 Justice in America 4:1 (3)
- 73.200 Deprivation of Liberty 4:2 (3)
- 73.308 Justice, Morality, and the Law (3)
- 73.309 Justice and Public Policy (3)
- 73.310 The Legal Profession (3) (if not taken for requirement above)
- 73.342 Judicial Administration (3)
- 73.343 Issues in Civil Justice (3)
- 73.382 Determination of Fact (3)
- 73.420 Legal Reasoning (3)
- 73.504 Comparative Criminology and Criminal Justice (3)
- 73.541 Law and Authoritarian Societies (3)
- 73.551 Comparative Justice Studies Abroad (3-6)

Sociology and Anthropology

- 03.215 Sex, Gender, and Culture 3:2 (3)
- 03.336 Social Structure (3)
- 03.431 Taboos (3)
- 65.303 Deviance and Social Control (3)
- 65.332 Law and Society (3)
- 65.350 Social Problems in a Changing World (3)
- 65.351 Race and Ethnic Conflict: Global Perspectives (3)
- 73.220 Cities and Crime 2:2 (3)
- 73.303 Drugs, Alcohol, and Society (3)
- 73.404 Gender and the Law (3)
- 73.454 Violence in America (3)
- 73.517 Victimology (3)

Political Science/Government

- 33.321 International Law (3)
- 53.215 Civil Rights and Liberties 4:2 (3)
- 53.305 Modern Political Thought (3)
- 53.321 Congress and Legislative Behavior (3)
- 53.335 Democratization, Participation, and Social Movements (3)
- 53.350 Constitutional Law I: Powers and Federalism (3)
- 53.352 Law and the Political System (3)
- 54.345 The Law of Public Administration (3)
- 60.221 Philosophy, Politics, and Society (3)
- 73.463 Free Press and the Administration of Justice (3)

Economics

- 14.201 Business Law (3)
- 19.200 Microeconomics 4:2 (3)
- 19.302 Comparative Economic Systems (3)
- 19.309 Public Economics (3)
- 19.317 Political Economy (3)
- 19.320 History of Economic Ideas (3)
- 19.325 Social Choice and Economic Justice (3)
- 73.412 Law and the Corporate World (3)
- 73.513 Law and Economics (3)

Psychology

- 57.205 Social Psychology 4:2 (3)
- 57.215 Abnormal Psychology and Society 4:2 (3)
- 57.240 Drugs and Behavior 5:2 (3)
- 73.215 Violence and Institutions 4:2 (3)
- 73.301 Drugs, Consciousness and Human Fulfillment (3)
- 73.333 Law, Psychology, and Justice (3)
- 73.352 Psychiatry and the Law (3)
- The remaining 12 credit hours may be selected from any one or more of the clusters. A total of 9 credit hours of internships, cooperative education placements, independent study, independent reading, Washington Semester or American University study abroad programs may be applied to this requirement, with no more than 6 credit hours of course work in any one category.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Washington Semester in Justice

Admission to the Program

This one semester program draws on the unique environment of Washington, D.C. to provide students with a realistic picture of the processes of the criminal justice system; the interrelationships of the institutions operating in that system; the problems of civil justice systems; and local, national, and international levels of the justice system. This is accomplished through seminars, field trips to justice agencies, internships, and independent research projects. The program is open to students from American University and affiliated institutions. Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Requirements for admission to the program are: (1) a major in justice or a related social science; (2) nomination by two Washington Semester faculty representatives; (3) a minimum 2.50 grade point average (on a 4.00 scale); and (4) at least second-semester sophomore standing at the time of participation.

Course Requirements

- 73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4)
- 73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4)
- 73.490 Independent Study Project in Justice (4) *or* other approved course
- 73.491 Internship in a Justice Setting (4)

Minor in Justice

Course Requirements

- 73.103 Critical Issues in Justice (3)
- 73.104 Introduction to Systems of Justice (3) *or* 73.100 Justice in America 4:1 (3)
- Twelve credit hours in justice (73.xxx) at the .300 level or above. No more than 6 credit hours may be taken from any one cluster: Justice, Criminology and Deviance; Justice and Legal Process; Justice, Law Enforcement and Public Policy; and Justice, Corrections and Punishment (see Justice major course requirements, above).

Combined B.A. and M.S. in Justice, Law and Society

Admission to the Program

This program enables students to complete the B.A. and the M.S. in five years. Undergraduate students with majors in justice or related disciplines at the American University apply to this program through the Graduate Admissions Office no later than the last undergraduate semester. Admissions decisions are based on the normal M.S. standards and procedures of the school.

Course Requirements

- All requirements for the B.A. in Justice, B.A. in Law and Society, or related discipline
 - All requirements for the M.S. in Justice, Law and Society
- Students may use up to 6 credit hours of course work in justice at the .500 level or above to satisfy the requirements for both degrees.

M.S. in Justice, Law and Society

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must submit Graduate Record Examination test scores. A background of relevant undergraduate preparation in the social, behavioral, and administrative or managerial sciences is preferred, but not absolutely required. All applicants are evaluated on the basis of scholastic achievement in their last 60 credit hours of undergraduate work, test scores and two letters of recommendation.

Degree and Major Requirements

- A total of 33 credit hours of approved graduate work
- One three hour written comprehensive examination covering both of the concentration areas, Justice and Public Policy, and Law and Society
- Two research courses are required in lieu of a thesis. (Prerequisite: a course in basic statistics or proficiency examination equivalent.)

Course Requirements

- 73.610 Survey in Justice and Public Policy (3)
 - 73.611 Survey in Law and Society (3)
 - 73.680 Introduction to Justice Research I (3) (prerequisite: a course in basic statistics)
 - 73.681 Introduction to Justice Research II (3)
- Eighteen credit hours from the areas of concentration:
- Justice and Public Policy: 9 credit hours from the following:
 - 53.606 Foundations of Policy Analysis (3)
 - 54.610 Public Management (3)
 - 54.633 Public Financial Management (3)
 - 73.517 Victimology (3)
 - 73.550 Drugs, Crime, and Public Policy (3)
 - 73.551 Comparative Justice Studies Abroad (3)
 - 73.604 Theoretical Issues in Crime and Justice (3)
 - 73.608 The Constitution and Criminal Procedure (3)
 - 73.643 Advanced Seminar in Policing (3)

- 73.663 Advanced Seminar in Courts (3)
- 73.686 Advanced Seminar in Corrections (3)
- 73.687 Law, Deviance, and the Mental Health System (3)
- Law and Society: 9 credit hours from the following:
 - 29.651 Era of the Revolution and Constitution (3)
 - 33.621 International Law and the Legal Order (3)
 - 39.600 Theories of Justice (Washington College of Law)
 - 53.674 Constitutional Law and Politics (3)
 - 60.525 Seminar on Modern Moral Problems (3)
 - 60.641 Philosophy of the Social Sciences (3)
 - 73.501 Concept of Justice (3)
 - 73.502 The Concept of Law (3)
 - 73.504 Comparative Criminology and Justice (3)
 - 73.513 Law and Economics (3)
 - 73.541 Law and Authoritarian Societies (3)
 - 73.551 Comparative Justice Studies Abroad (3)
 - 73.613 Law and Anthropology (3)
 - 73.614 Law and Behavioral Sciences (3)
 - 73.615 Law and Human Rights (3)
 - 73.644 Law and Social Control (3)
- Elective: 3 additional credit hours from either concentration or from the following:
 - 73.551 Comparative Justice Studies Abroad (3)
 - 73.690 Independent Study Project in Justice (3)
 - 73.691 Internship in a Justice Setting (3)
 - 73.692 Cooperative Education Field Experience (3)

Note: A total of 6 credit hours from 73.551 Comparative Justice Studies Abroad may be used toward the degree: 3 credits in either the Justice and Public Policy concentration or the Law and Society concentration, and 3 credits for the elective.

J.D. and M.S. in Justice, Law and Society

Admission to the Program

The program enables students to complete the J.D. and M.S. degrees in approximately four years. Students must apply to and be accepted by both the Washington College of Law and the Department of Justice, Law and Society. Admission to either the M.S. or J.D. program in no way implies that admission to both programs will necessarily be granted.

Students may apply to both programs simultaneously or begin either program separately and then apply to the other program. However, once the study of law has begun, no justice courses can be taken until one full year of full-time law study has been completed.

Admission criteria are the same as those for the master's program in Justice, Law and Society. If application is made initially to the Washington College of Law (WCL), LSAT scores are accepted in place of GRE general scores and application materials submitted to the WCL are reviewed for admission to the Department of Justice, Law and Society.

Requirements

- All requirements for the Juris Doctor in the Washington College of Law

- All requirements for the Master of Science in Justice, Law and Society in the Department of Justice, Law and Society. Students may apply 6 credit hours of justice courses to the J.D. degree and 6 credit hours of law courses to the M.S. in Justice, Law and Society. The law adviser must approve the justice courses and the justice adviser must approve the law courses in advance of taking the courses to be applied toward both degrees.

Ph.D. in Sociology: Justice

Admission to the Program

Admission to the Ph.D. program in Sociology with a specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the Department of Justice, Law and Society.

To apply for admission to this program, students supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit Graduate Record Examination scores.

Degree Requirements

A minimum of 72 hours of approved graduate work is required for the Ph.D. program. Normally these 72 hours consist of 60 hours of course work and 12 hours of directed study on the dissertation. The dissertation committee is chaired by a faculty member of the Department of Justice, Law and Society.

Four comprehensive examinations are required: sociological theory, methods of social research, a field of concentration approved by the Department of Sociology, and the Ph.D. field of Justice, Law and Society, administered by the Department of Justice, Law and Society. At least one of the examinations must be taken orally; however, it is strongly recommended that the justice comprehensive examination be written.

For more information about the Ph.D. in Sociology: Justice, see the Department of Sociology section in this catalog.

Ph.D. Field in Justice, Law and Society

Students admitted to the Ph.D. in Public Administration or the Ph.D. in Political Science programs may choose Justice, Law, and Society as one of their fields of study. For more information see the Ph.D. in Political Science or the Ph.D. in Public Administration program description.

Course Requirements

- 73.710 Seminar in Justice, Law and Society (3)
- Two or three additional courses from the following:
 - 53.674 Constitutional Law and Politics (3)
 - 73.608 The Constitution and Criminal Procedure (3)
 - 73.614 Law and the Behavioral Sciences (3)
 - 73.615 Law and Human Rights (3)
 - 73.643 Advanced Seminar in Policing (3)
 - 73.644 Law and Social Control (3)
 - 73.663 Advanced Seminar in Courts (3)
 - 73.687 Law, Deviance, and the Mental Health System (3)
 - 73.690 Independent Study Project in Justice (3)

Department of Public Administration

Chair Bernard H. Ross

Academic Advisers Nina Allen, Brenda Manley

Full-Time Faculty

Professor Emeritus R.P. Boynton, E.H. DeLong (Dean Emeritus), E.V. Mittlebeeler, N.S. Preston, E.S. Robinson, R.G. Smolka, M.P. Walker

Distinguished Professor D. Rosenbloom

Professor R.E. Cleary, C.M. Kerwin, D.H. Koehler, L. Langbein, G.B. Lewis, H. McCurdy, B.H. Ross, B.R. Schiller, M. Segal

Associate Professor K. Farquhar, H. Lieber, D. Zauderer

Assistant Professor M. Bailey, B. Fletcher, S. Knack, D. Mullins

Distinguished Adjunct Professor in Residence

A. Alpern, A. Zuck

The Department of Public Administration makes use of the special opportunities available from its location in the nation's capital for the teaching and study of public administration.

The graduate programs are designed to prepare students for academic or professional careers in public affairs or policy analysis. The master's and doctoral programs in public administration are flexible in order to meet the educational needs of a diverse student population.

Minor in Public Administration

The minor in Public Administration is designed for students interested in pursuing careers in the public or not-for-profit sector. It allows students to major in the social sciences or humanities while specializing in an academic area that is more career focused.

Requirements

- A total of 21 credit hours (three designated courses plus four electives)

Course Requirements

- 53.110 Politics in the United States 4-1 (3-4) *or* 53.120 Introduction to American Politics (3-4)
 - 54.260 Administrative Politics (3)
 - 54.343 Governmental Management (3)
 - Twelve additional hours from the following:
 - 10.353 Principles of Organizational Theory, Behavior, and Management (3)
 - 53.240 Metropolitan Politics (3)
 - 53.560 Intergovernmental Relations (3)
- Courses related to the field of public administration numbered 53.xxx with the approval of the public administration chair.

Combined Bachelor's and Master of Public Administration

This program enables qualified students to earn, in a continuous plan of five years of study, both a bachelor's degree with a major in any related discipline and the Master of Public Administration.

Admission to the Program

Admission to the combined B.A./M.P.A. program requires junior standing, a cumulative grade point average of 3.00 (on a 4.00 scale), a completed application form (available from the Department of Public Administration), a written faculty recommendation, an essay on the student's interests and abilities in public administration, and an interview with the Department of Public Administration chair.

Acceptance and participation in the combined B.A./M.P.A. program does not automatically guarantee acceptance into the graduate program. Students must apply for admission to the graduate program through the Office of Graduate Admissions no later than the last undergraduate semester.

Course Requirements

- All requirements for a bachelor's degree with a major in any related discipline

- All requirements for the Master of Public Administration

Up to 12 credit hours of approved graduate level courses may be applied to the requirements of both degree, including 54.610 Public Management and three other courses specified by the Department of Public Administration as applicable to both degrees. Recommended preparatory courses for the combined B.A./M.P.A. program include courses in economics, statistics, computer science, accounting, writing and other communication skills, undergraduate internships, and related work experience.

Combined Bachelor's and Master of Public Policy

This program enables qualified students to earn, in a continuous plan of five years of study, both a bachelor's degree with a major in any related discipline and the Master of Public Policy.

Admission to the Program

Admission to the combined B.A./M.P.P. program requires junior standing, a cumulative grade point average of 3.00 (on a 4.00 scale), a completed application form (available from the Department of Public Administration), a written faculty recommendation, an essay on the student's interests and abilities in public policy, and an interview with the Department of Public Administration chair.

Acceptance and participation in the combined B.A./M.P.P. program does not automatically guarantee acceptance into the graduate program. Students must apply for admission to the

graduate program through the Office of Graduate Admissions no later than the last undergraduate semester.

Course Requirements

- All requirements for a bachelor's degree with a major in any related discipline
- All requirements for the Master of Public Policy

Six credit hours from the following courses may be applied to both degrees:

- 54.601 Methods of Problem Solving I (3)
- 54.604 Public Program Evaluation (3)
- 54.606 Foundations of Policy Analysis (3)
- 54.630 Public Managerial Economics (3)

Recommended preparatory courses for the combined B.A./M.P.P. program include courses in economics, statistics, computer science, accounting, writing and other communication skills, undergraduate internships, and related work experience.

Master of Public Administration (M.P.A.)

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation and an essay on career interests. The Graduate Record Examination (GRE) is desirable but not required for admission to the program. The GRE is required for full-time applicants who wish to be considered for a departmental honors award.

Degree and Major Requirements

- A total of 42 credit hours of approved graduate work
A student who has performed successfully for several years as a manager in a supervisory role before admission to the M.P.A. program may apply to the chair of Public Administration to have the total program reduced by up to 6 credit hours. Such application must make reference to a number of areas in which the student has acquired basic competency. Credit earned as part of an internship program does not count toward the total course requirement for students availing themselves of this provision. Students seeking to use both the significant managerial experience clause and the transfer credit allowance are limited to a total of 9 credit hours.
- One written comprehensive examination
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
54.601 Methods of Problem Solving I (3)
54.602 Methods of Problem Solving II (3)
54.610 Public Management (3)
54.612 Politics of Administration (3)
54.630 Public Managerial Economics (3)
- All M.P.A. students are required to attain basic competency in the following areas: public management; methods of problem solving in public administration; information systems and computer applications in management decision making; microeconomics applied to the public sector; policy making, politics, and

administration; legal aspects of public administration; leadership, interpersonal relations and the behavioral sciences; public financial management; and personnel administration

Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.602 Methods of Problem Solving II (3)
- 54.610 Public Management (3)
- 54.612 Politics of Administration (3)
- 54.616 Legal Issues in Public Administration (3)
- 54.630 Public Managerial Economics (3)
- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)
- 54.665 Public Personnel Administration (3)
- Management skill: at least one course designed to increase practical skills needed by public managers
- Area of concentration: at least three courses in a single area of concentration or subfield within it. The three courses must complement one another and lead to an advanced level of study. Areas include: policy analysis; urban affairs; public financial management; international administration; arts management; management information systems; human resources and organization development; and court management.
- Internship: Preservice students about to begin their career participate in a supervised internship. An internship seminar, equal in credit to one course, relates on-the-job experience to current political and administrative issues. The formal internship program is optional for students already employed.

Any remaining courses necessary to complete the M.P.A. program are selected from advanced offerings in supporting fields.

Key Executive Program

The Key Executive Program is designed to meet the executive development needs of senior government managers. Begun in 1975, the Key Executive Program is a twenty-month course of study in the skills, knowledge, and values needed by top-level public executives and offers participants the perspectives and competencies necessary for effective performance in high level executive and managerial work. The curriculum includes the major activity areas used in certifying candidates for career positions in the Senior Executive Service.

Classes are held on selected Fridays and Saturdays. Participants continue to work at their jobs while completing their studies. Upon completion of this 36-credit hour graduate program, participants are awarded the Master of Public Administration degree.

Admission to the Key Executive Program is competitive and restricted to GS13s or above (or the equivalent) who exercise significant responsibilities for program management or policy development and are preparing themselves for positions of greater responsibility. A bachelor's degree is required. The program is oriented to civilian personnel in the federal government, military or other uniformed personnel, and state and local officials.

Master of Public Policy (M.P.P.)

The Master of Public Policy (M.P.P.) combines economics and politics into one professional degree. The M.P.P. may be a terminal degree for students seeking employment in policy analysis and evaluation in federal, state and local government agencies, consulting firms, not-for-profit organizations, professional associations and interest groups. Other students go on to pursue a Ph.D. in public policy or a related discipline.

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on the academic record, two letters of recommendation and an essay on career interests. The Graduate Record Examination (GRE) is desirable but not required for admission to the program. The GRE is required for full-time applicants who wish to be considered for a departmental honors award.

Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
- One written comprehensive examination
- The research requirement (non-thesis option) is satisfied by completing two of the following courses with grades of B or better:

54.601 Methods of Problem Solving I (3)

54.602 Methods of Problem Solving II (3)

54.607 Economics and Politics of Public Policy (3)

54.630 Public Managerial Economics (3)

- All M.P.P. students are required to attain basic competency in the following areas: public program evaluation, methods of problem solving in public policy formation, foundations of policy analysis, public managerial economics, public financial management, policy formation and policy implementation.

Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.602 Methods of Problem Solving II (3)
- 54.603 Policy Formation (3)
- 54.604 Public Program Evaluation (3)
- 54.606 Foundations of Policy Analysis (3)
- 54.607 Economics and Politics of Public Policy (3)
- 54.609 Policy Implementation (3)
- 54.630 Public Managerial Economics (3)
- 54.633 Public Financial Management (3)
- Area of concentration (9 credit hours): At least three courses in an area of concentration listed below. Students also may choose other areas of concentration. The courses must complement one another and lead to an advanced level of study. Areas of concentration include: administration of international programs, economics, education, environmental policy, ethics and public policy, international affairs, international training and education, justice, law and society, politics, public management, social policy (sociology), and statistics.

A list of approved courses for each concentration is available in the Department of Public Administration. Areas of concentration not listed and exceptions to take courses from more than one area must be approved in advance by the chair of the Department of Public Administration.

Co-op (optional) (3 credit hours): Preservice students about to begin their careers may participate in a faculty-supervised co-op which substitutes for an area of concentration course.

A co-op seminar relates on-the-job experience to current public policy issues.

M.S. in Organization Development

The M.S. in Organization Development is a specialized course of study designed to educate students for specific professional roles in the human resource development field. Courses are usually offered on weekends, and are tailored to provide advanced theory and technology in organization development. The Organization Development program is administered jointly by the Department of Public Administration and the NTL Institute for Applied Behavioral Science and is designed for persons who want to improve their professional skills in the field of organization development.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must possess two years of relevant professional experience in human resource development or related fields. Exceptions may be made for highly qualified applicants with many years of service and a record of exceptional accomplishment. Such candidates are admitted provisionally, and after completing four courses with a grade point average of 3.00 (on a 4.00 scale) or higher, may be advanced to full standing.

Major

The Master of Science in Organization Development is taken with a major in Organization Development. The major is designed for individuals pursuing careers in training, organizational development, and organizational research and consultation.

Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
 - 54.641 Methods of Problem Solving (3)
 - 54.642 Organization Dynamics (3)
 - 54.646 Consultation Skills (3)
 - 54.677 Introduction to Organization Development (3)
- One written comprehensive examination
- As a prerequisite to a major in Organization Development, students must take a Human Interaction Laboratory or Institute on Group and Personal Interaction

Course Requirements

- 54.640 Leadership (3)
- 54.641 Methods of Problem Solving (3)
- 54.642 Organization Dynamics (3)
- 54.677 Introduction to Organizational Development (3)
- Twenty-four credit hours chosen from the following:
 54.646 Consultation Skills (3)
 54.648 Group Theory and Facilitation (3)
 54.649 Studies in Human Resource Management (3)
 (sections specified each semester by the department)
 54.653 The Individual and the Organization (3)
 54.674 Practicum Research Project (3)
 54.675 Organizational Analysis and Strategies (3)
 54.676 Politics of Administration (3)
 54.679 Studies in Human Resource Development (3)
 (sections specified each semester by the department)
 Other university and consortium courses taken as electives must be approved by the chair, Department of Public Administration.

M.S. in Personnel and Human Resource Management

The M.S. in Personnel and Human Resource Management is a specialized course of study designed to educate students for specific careers in the human resource management field. Classes are offered on weekends and students progress through the program as a group, taking courses from both the Department of Public Administration and the Kogod College of Business Administration. Courses are specifically designed to blend the latest theory and practice in the field of human resource management. All students are expected to attain basic competency in personnel and human resource management.

Admission to the Program

Applicants must have earned a bachelor's degree with a cumulative grade point average of 3.00 (on a 4.00 scale) in their last 60 credit hours of undergraduate work. Exceptions may be made for highly qualified applicants with many years of service and an outstanding record of professional achievement. Such candidates may be admitted provisionally, with their academic record reviewed at the completion of 12 graduate credit hours.

Degree Requirements

- A total of 39 credit hours of approved graduate work
- One written comprehensive examination
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
 54.630 Public Managerial Economics
 54.641 Methods of Problem Solving
 10.681 Compensation Systems
 10.682 Managing Pensions and Benefits

Course Requirements

- 54.616 Legal Issues in Public Administration (3)
- 54.630 Public Managerial Economics (3)
- 54.640 Leadership (3)
- 54.641 Methods of Problem Solving (3)
- 54.642 Organization Dynamics (3)
- 54.648 Group Theory and Facilitation
- 54.658 Managing Conflict (3)
- 10.585 Managing Diversity: Recruiting and Selecting the Workforce (3)
- 10.671 Strategies in Human Resource Management (3)
- 10.681 Seminar in Compensation Systems (3)
- 10.682 Seminar in Managing Pensions and Benefits (3)
- 10.684 Seminar in Performance Management (3)
- 10.686 Management-Union Relations (3)

Graduate Certificate in Organizational Change

Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

Certificate Requirements

- Fifteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of 6 credit hours during each twelve-month period until the program is completed.

Course Requirements

- 54.650 Leadership for Public Management (3)
- 54.654 Managing Organization Change (3)
- 54.656 Managing Diversity (3)
- 54.658 Managing Conflict
- One of the following:
 54.618 Management Workshop:
 Group and Personal Interaction (3)
 54.652 Building Effective Work Teams (3)
 54.653 The Individual and the Organization (3)

Graduate Certificate in Public Financial Management

This certificate program is designed for government employees interested in expanding their knowledge and practical skills in public financial management. The main objective of the program is to provide the student with a working knowledge of basic financial management techniques that are relevant to public sector financial operations.

Admission to the Program

Open to students with a bachelor's degree from an accredited college or university.

Certificate Requirements

- Fifteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of 6 credit hours during each twelve-month period until the program is completed.

Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.610 Public Management (3)
- 54.631 Financing Government Services (3) *or* 54.636 Public Financial Analysis (3)
- 54.632 Governmental Budgeting (3)
- 54.633 Public Financial Management (3)

Course substitutions may be made with approval of the Department of Public Administration.

Graduate Certificate in Public Management

Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

Certificate Requirements

- Fifteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of 6 credit hours during each twelve-month period until the program is completed.

Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.610 Public Management (3)
- 54.616 Legal Issues in Public Administration (3)
- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)

Course substitutions may be made with approval of the Department of Public Administration.

Ph.D. in Public Administration

Admission to the Program

Applicants are considered and admitted only for the fall semester. February 1 is the deadline for application for admission. All applicants must submit scores from the verbal and quantitative sections of the Graduate Record Examination. The normal minimum for consideration is a grade point average of 3.20 (on a 4.00 scale) in all previous academic work. Preference will be given to applicants for full-time study, although highly qualified students may be admitted for part-time study.

Major Fields

American Politics, Comparative Politics, Justice, Law and Society, Policy Analysis, and Public Administration

Degree and Major Requirements

- A total of 72 hours of approved graduate work is required for students entering the program with a bachelor's degree; a minimum of 48 hours is required of students who have completed an approved master's degree.
- Advancement to candidacy is accomplished by successfully completing a written qualifying examination on the major field at the end of the second semester of study.
- Students take two written comprehensive examinations, in Public Administration and any one of the remaining major areas. They master the subject matter of a third area through formal course work. Following completion of the written examinations, all students take an oral examination on their entire program of study before a committee of faculty members.

Two of the three major areas must be offered by the School of Public Affairs. As long as this requirement is satisfied, students seeking the Ph.D. in Public Administration may include as a comprehensive or non-comprehensive area any Ph.D. field in the School of International Service (except Comparative and Regional Studies) or any Ph.D. field offered at American University, subject to the approval of the SPA director of doctoral programs.

- The Ph.D. is fundamentally a research degree. Understanding scientific inquiry and correctly using research techniques require extensive preparation. All students in the program take four courses designed to help doctoral students comprehend the nature of science and master tools of research: 53.612 Conduct of Inquiry I (3)
53.613 Conduct of Inquiry II (3)
53.614 Research in Political and Administrative Behavior (3)
53.704 Approaches to Political Understanding (3)
- Each student selects a research specialization in which he or she will complete an original project under the direction of program faculty and write a dissertation. Students may choose research projects within one of the major areas or they may select a research specialization from one of the other graduate fields within the school.

Each student prepares a research proposal for the dissertation project. It is the responsibility of the student to secure the agreement of a School of Public Affairs full-time tenured or tenure-track faculty member to serve as the chair of the dissertation committee. One of the two other members of the committee may be from outside the School of Public Affairs. Each student must publicly defend the research proposal before the dissertation committee and other interested faculty.

The committee and the SPA director of doctoral programs (acting for the dean) must approve the defense and the research proposal. The topic covered by the proposal must be related to ongoing research or publications of the supervising faculty.

As work on the dissertation project progresses, each student registers for a total of 6–12 credit hours of directed study. Substantive course work may be used as part of this requirement where it contributes directly to the research

specialization and is specifically recommended by the dissertation chair.

Upon completion of the research and the written dissertation, the candidate submits his or her manuscript to the dissertation committee for review. If the committee members approve the manuscript, the candidate must complete an oral defense of the dissertation and the general field in which it lies before the committee and other interested faculty. The committee determines conclusively at this point whether the dissertation and examination are acceptable.

The dissertation must consist of high quality original research directly relevant to the student's doctoral program. A dissertation proposal may be rejected if the topic does not address a major research issue in political science or public administration, the research design is inadequate, the methodology is inappropriate, or because no full-time tenured or tenure-track faculty member in the School of Public Affairs is academically competent or available to supervise the project. If the candidate fails to maintain satisfactory progress toward completion of the dissertation, his or her candidacy may be terminated.

Course Requirements

Major Field in Public Administration

- 54.710 Seminar in Public Administration (3)

Other Major Fields:

- Two proseminars selected from:
 - 53.710 Seminar in American Politics (3)
 - 53.720 Seminar in Policy Analysis (3)
 - 53.730 Seminar in Comparative Politics (3)
 - 73.710 Seminar in Justice, Law and Society (3)

For all fields:

- Two additional courses in each of the two written comprehensive areas (some areas may require three courses beyond the proseminar, rather than two)
- An additional course in a non-comprehensive area
- Four courses in research design and methodology:
 - 53.612 Conduct of Inquiry I (3)
 - 53.613 Conduct of Inquiry II (3)
 - 53.614 Research in Political and Administrative Behavior (3)
 - 53.704 Approaches to Political Understanding (3)
- Remaining 6–12 credit hours on the dissertation and, for those entering the program with a bachelor's degree, additional graduate level courses.

Washington College of Law

Dean Claudio M. Grossman

Associate Deans for Faculty and Academic Affairs

Robert D. Dinnerstein

Andrew D. Pike

Associate Dean for Student Affairs Edwin R. Hazen

Founded in 1896, the Washington College of Law (WCL) of American University combines a rigorous and challenging atmosphere for legal studies with a highly personal approach to teaching. WCL was established as a coeducational school to ensure that women, as well as men, would have the opportunity to study law. The school's origins underlie the faculty and administration's special interest in the future of women in the law and have led to a long tradition of providing full access to the study of law to those who have been excluded from the mainstream of the profession.

The Washington College of Law became a professional division of American University in 1949 and is fully accredited. It is a member of the Association of American Law Schools and is approved by the American Bar Association. The school meets the requirements for preparation for the bar in all states and carries the certification of the United States District Court for the District of Columbia, as well as the New York State Department of Education.

The focus of the curriculum is on the methodology, practical skills, and theories fundamental to the practice of law. This is carried out through a wide range of traditional course offerings, supplemented by an extensive clinical program, simulation courses, and an international law program. These educational offerings are complemented by the vast legal network of federal agencies, courts, regulatory commissions, international organizations, and law firms present in Washington.

Academic Programs

The academic program leading to the Juris Doctor (J.D.) degree is designed to allow students to develop special skills in public law, business and commercial law, international law, property and land use, and related fields. In addition to the J.D.

program, the law school offers a Master of Laws in International Legal Studies (LL.M.) The LL.M. permits specialization in one of four areas: international trade and banking; international environmental law; international protection of human rights; and international organizations.

WCL also participates in dual degree programs with other American University schools which offer students the opportunity to receive both a J.D. from the Washington College of Law and a master's degree in International Affairs (with the School of International Service); Justice, Law and Society (with the School of Public Affairs); or Business Administration (with the Kogod College of Business Administration).

American University's law school has a strong national and international substantive focus, offering a broad range of courses in addition to the basic program necessary for state bar examinations. Clinical programs involve students in providing representation, under close faculty supervision, of clients with pending legal problems. Students have responsibility for every phase of the cases, from the initial client interview through the trial or appeal. The programs include: the Criminal Justice Clinic, in which students spend a semester prosecuting and a semester defending criminal cases; the Women and the Law Clinic, in which students represent indigent women in family law cases; the Public Interest Law Clinic, in which students represent clients before federal administration agencies; the Appellate Advocacy Clinic, which involves representation before state and federal appellate courts; the International Human Rights Clinic, in which students handle both domestic and international cases with human rights dimensions; and the Tax Clinic, which provides students with experience in federal tax practice before the Internal Revenue Service and the U.S. Tax Court.

Beyond the classroom, the clinical program, and field placements at federal, state, and local agencies, courts, and legislatures, the academic offerings are enriched by an extensive independent study research program allowing for intensive faculty-student work on complex legal research projects. In addition, the *American University Law Review*, *Journal of International Law and Policy*, *Administrative Law Review*, and *Journal of Gender and the Law* provide opportunities for

students to develop expertise in traditional legal writing and research. The *American Jurist* is a student-published monthly newspaper that provides the law school community an open forum in which to discuss issues of contemporary, legal, social or related interest.

The basic first-year classes are taught using case analysis and dialogue as well as the problem method. First-year students take an intensive course in legal research and writing taught by attorneys from leading law firms or government agencies. Upper-class courses are mostly elective and include a wide variety of teaching styles and formats.

These programs are all greatly enhanced by the availability of the many excellent research law libraries which are located in the city of Washington and which comprise resources unmatched elsewhere. WCL's Law Library holdings include 213,459 volumes, over one million microforms; 6,181 serial subscriptions, on-line databases through LEXIS/NEXIS, MEDIS, Westlaw, BRS, Dialog, OCLC, RLIN, Vutext, Autocite, and LEGAL, an on-line catalog providing access to hundreds of other libraries, including other area law libraries. All computers are fully networked, with full access to the Internet and CD-ROM services. About half of the seats in the library are equipped with data jacks so that users may plug their own notebook computers into the network.

The Law Library is a selective depository for U.S. government publications, some of which are housed in the university's Bender Library, and a full depository for European Union documents. The Law Library also houses the National Equal Justice Library collection, the Goodman Collection of rare and semi-rare law books, the Baxter Collection in International Law, and the archives of the former Administrative Conference of the United States.

Legal Study in Washington, D. C.

The Washington College of Law is located in the northwest section of the city a short distance from Congress, the Supreme Court, the United States District Court and Court of Appeals, and the Maryland, Virginia, and District of Columbia courts. Washington, D.C. is the center of all federal regulatory process, and is the principal home of every major federal agency,

such as the Securities and Exchange Commission, the Federal Communications Commission, the Internal Revenue Service, and the Federal Trade Commission. Washington is also the base for cabinet-level departments such as the Department of Energy, the Department of Education, the Department of Justice, and other agencies which perform functions critical to the federal system and contribute to an environment for legal education unparalleled outside this city. Judicial, executive, and legislative internships form an integral part of the legal education of many WCL students.

In addition, Washington is the seat of the world's principal intergovernmental financial institutions, including the World Bank, the International Monetary Fund, and the Inter-American Development Bank. Also located in Washington are the Organization of American States and the International Telecommunications Satellite Organization. Private or nongovernmental organizations, among them Amnesty International and the International Human Rights Law Group, have offices in Washington, and a majority of the world's leading international law firms can be found here.

Taking advantage of this natural setting for legal study and work, WCL offers many unique courses taught by its full-time faculty and by specialists who are members of the adjunct faculty. Field components are available in various courts and government agencies, and are carefully supervised by faculty members and designated field supervisors. For second- and third-year students interested in part-time law-related jobs, the Career Services Office coordinates requests for law student employment from law firms, corporations, courts, and government agencies. Further, the law school offers a unique training program in federal regulatory process which has a separate lecture faculty of top-level officials from the government and private sector.

Specific requests for information regarding Washington College of Law admissions, financial aid or programs should be sent directly to the Admissions Office, Washington College of Law, 4801 Massachusetts Ave. N.W. Washington, D.C. 20016-8085, or telephone (202) 274-4101, or, on the Internet: www.wcl.american.edu

Interdisciplinary Programs

- **Interdisciplinary Majors, Minor and Degree Programs**
- **Environmental Studies Programs**
- **Dual and Joint Degree Programs**
- **University Centers**

Interdisciplinary programs offer students an opportunity to utilize the multiplicity of resources available at American University by pursuing degrees that are administered jointly by various schools and departments within the university.

Students also have the option of designing a degree program that fulfills individual educational and professional requirements within the high academic standards of the university. Academic counselors and faculty members counsel students in the formation of undergraduate and graduate, formal and informal interdisciplinary majors. Up-to-date information on all interdisciplinary activities can be obtained from the appropriate undergraduate or graduate dean's office.

B.A. or B.S. in Interdisciplinary Studies

This program is designed for students who wish to construct their own major programs of study in accordance with their needs, capabilities, and interests. The initiative in formulating an interdisciplinary major is left to the student. The student has the responsibility to determine the central concept around which the program is constructed and to formulate in writing a list of all courses—major, related, and tool—which are to serve as requirements for the program.

The student must secure the advice and approval of three faculty members: one major adviser who must be a full-time faculty member and two sponsors. The three faculty members should represent the various disciplines involved in the interdisciplinary field. The major faculty adviser will advise the student for the rest of the student's undergraduate career. The two sponsors will assist the major adviser in areas outside his or her field.

Admission to the Program

As a rule, final written application to the program and interviews must be made no later than the first semester of the junior year and no earlier than the second semester of the freshman year. Students must have at least a 2.50 grade point average (on a 4.00 scale) to be accepted. A student applies for permission to undertake an interdisciplinary major to the dean of the school or college in which he or she is enrolled. If the focus of the interdisciplinary

program requires a change of college or school, the student must affiliate with the appropriate division.

An outline of the student's program submitted for approval must include:

1. A statement of the central concept of the major and an explanation of its interdisciplinary character.
2. A statement demonstrating that existing programs do not satisfy the educational needs or vocational goals of the student.
3. An outline of the academic requirements of the major, including a list of all required courses and a tentative schedule for their completion. Independent study courses must be outlined if included in the proposal.
4. A Declaration of Major form, which must specify the name of the major and whether a B.A. or a B.S. degree is to be awarded.

Majors

Individually designed majors focused on an interdisciplinary theme

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- A total of 42 credit hours with grades of C or better including 6 credit hours of independent study or senior seminars and 36 hours selected to form an academically sound, unified, and well-defined program:

The area of concentration may not be the focus of any current degree program offered by the American University, and the central concept must be interdisciplinary. A random collection of courses taken from several departments does not constitute an acceptable interdisciplinary program. Each program should be designed to give the student the fundamental skills and background knowledge relevant to the specific interdisciplinary area. Courses which a student has already taken at the American University, or which the university has accepted in transfer, may be counted as part of the interdisciplinary major requirements when they are clearly within the proposed interdisciplinary field.

- Six credit hours in two independent study courses or senior seminars under the direction of the major adviser constructed to unite the various aspects of the interdisciplinary program. With the adviser's approval, the student may substitute an internship course under the adviser's direction, a 500-level seminar, or cooperative education field experience for one of the two special courses.
- Twenty-seven of the remaining 36 credit hours must be upper level (as defined by the teaching units that offer them), and it is usually advisable to include at least two 500-level courses, although in certain cases this may not be possible.

A maximum of 18 credit hours of work completed prior to the semester in which application is made may be included in the program.

University Honors Program

Departmental Honors coordinators advise students in the University Honors Program regarding honors options. See the section on the University Honors Program in this catalog for further details.

Minor in Interdisciplinary Studies

Individually designed minors focused on an interdisciplinary theme

Admission to the Program

Admission to an interdisciplinary minor is governed by the same considerations as stated above for interdisciplinary majors except that approval is required by two rather than three faculty members.

Requirements

- A total of 24 credit hours of course work selected to form an academically sound, unified, and well-defined program. The area of concentration may not be the focus of any current degree program offered by American University, and the central concept must be interdisciplinary.
- Nine of the 24 credit hours must be taken at the 300- or 400-level and a minimum of 12 credit hours must be unique to the minor

In addition to the 24 credit hours of course work, the student may unify the minor by taking 3 credit hours of independent study or research, senior seminars, or cooperative education field experience focused on the central concept of the minor.

Courses used to satisfy the College Writing and English Competency requirement may not be used to satisfy the requirements of the interdisciplinary minor.

M.A. or M.S. in Interdisciplinary Studies

Admission to the Program

Graduate students interested in constructing an interdisciplinary master's program must first be admitted to a school or college or teaching unit of the university. In applying for admission, prospective graduate students may inform the faculty and teaching units of their interdisciplinary goals. In this manner the student unofficially explores the possibilities of obtaining faculty support for the desired interdisciplinary program.

Graduate students interested in this program should complete a major program form available in the office of the dean of the school or college. This completed form, along with a written statement of the concept of the program, and the letter of admission to a school or department of the university will serve as the admission packet for entrance to the program. Once this packet receives the approval of the dean of the school or college to which the student has been admitted, it will serve as the official record of the student's interdisciplinary master's program.

All programs must have the approval of three faculty members, at least one from each of the two or more disciplines involved in the interdisciplinary field. The responsibility for securing the advice and signature of the three faculty members is left with the student in consultation with the office of the dean. The student should select one of the faculty advisers, who must be from the admitting unit, as the primary adviser.

Majors

Individually designed majors focused on an interdisciplinary theme

Degree and Major Requirements

- A total of 30 credit hours of graduate work for the master's degree, including 6 credit hours of research credit either in writing a thesis or in completing special research seminars: At least 24 of the 30 credit hours, including the thesis or research sequence, must be completed in residence.

The individually designed interdisciplinary master's program allows graduate students to design their own M.A. or M.S. programs built around a central theme that cuts across various disciplines. Every program must form an academically sound area of concentration defined by a central concept. The area of study must not duplicate the program of any master's degree offered by the university. The central concept must be explained in a written statement attached to the application for approval of the master's program.

- One comprehensive examination:

The subject and scope of the examination are determined by the student and advisers at the time of initial approval of the interdisciplinary field. A statement detailing the provisions for the examination (who will draw it up, areas covered, and who will evaluate it) must be submitted with the application

to the office of the dean of the college. Unless otherwise indicated, the faculty who approve the program take responsibility for drawing up, administering, and evaluating the comprehensive examination.

- Thesis option: 6 credit hours of thesis research

Nonthesis option: two research seminars for 6 credit hours at the 500 level or above with grades of B or better. These research-oriented courses should serve to unify the elements of the program.

Students must specify which option has been chosen and indicate which courses will be taken (for the nonthesis option), or the subject of the thesis and members of the thesis committee (for the thesis option).

B.A. in Foreign Language and Communication Media

Admission to the Program

Students are admitted either to the School of Communication or to the Department of Language and Foreign Studies of the College of Arts and Sciences.

Program Tracks

French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- Prerequisite competency in the major language at the intermediate level
- A total of 54 credit hours with grades of C or better

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media 4:2 (3)
- Three communication and media studies courses from the School of Communication.
- Two courses related to any contemporary culture taught inside or outside the department
- One of the following:
03.254 Language and Culture (3)
38.253 Language and Mind (3)
or a higher-level linguistics course with permission of the student's adviser.

- Five professional courses in one of the four communication program tracks: Broadcast Journalism, Print Journalism, Public Communication, or Visual Media
- Fifteen credit hours of courses in the major language at the 300 level or above taken in the Department of Language and Foreign Studies

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

B.A. in Language and Area Studies

The B.A. in Language and Area Studies is designed for students with a strong interest in a region of the world and in a language of that region. The program, jointly designed and administered by the College of Arts and Sciences (CAS) and the School of International Service (SIS), builds on the strengths of the CAS Department of Language and Foreign Studies (LFS) and the SIS field of Comparative and Regional Studies.

This innovative program achieves a balance between humanities and social sciences courses, combined with an advanced level of foreign language study. American University is one of only a few institutions in the country which provide a degree with such combined program depth in both area studies and foreign languages. The Language and Area Studies degree program responds to the national need for foreign language skills in the global village for effective communication and improved international understanding.

An advisory committee composed of faculty members from the CAS Department of Language and Foreign Studies and the SIS Department of Comparative and Regional Studies works closely with Language and Area Studies degree majors throughout their program to provide guidance in course selection, research, and careers.

Admission to the Program

To be considered for freshman admission, an applicant should have earned at least a 3.00 average in secondary school. Students from other regionally accredited collegiate institutions, and students in other programs at American University who have completed the freshman year, should maintain a cumulative grade point average of 3.00 (on a 4.00 scale) to be considered for transfer to the program.

Majors

French/Europe, German/Europe, Russian/Area Studies, and Spanish/Latin America

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

A total of 51 credit hours with grades of C or better, as outlined below.

Course Requirements**Foundation Courses (9 credit hours)**

- 33.105 World Politics 3:1 (3)
- One intercultural communication course from the following:
33.140 Cross Cultural Communication 3:1 (3)
33.340 Foundations of International Communication (3)
33.341 Intercultural Communication (3)
- One comparative politics course from the following:
53.130 Comparative Politics 3:1 (3)
53.231 Third World Politics (3)
53.232 Politics of Industrial Societies (3)

Foreign Language Course work (18 credit hours)

- A total of 18 credits of course work in a single foreign language at the 300 level or above.
- Demonstration of proficiency in the appropriate foreign language:

As a requirement for completing the degree, Language and Area Studies (LAS) majors must demonstrate proficiency in the foreign language associated with their area of focus. This language proficiency will be demonstrated by achieving a B (3.00) average or better for all course work in the foreign language taken in the Department of Language and Foreign Studies.

Area Studies (21 credits with 12 credits at the 300 level or above)

- Fifteen credits of course work in humanities courses, including 3 credits from the Department of History (29.xxx) and an additional 3 credits of course work with a strong historical component, from the following (other appropriate area studies courses may be substituted with the approval of the major adviser):

French/Europe

- 07.101 European Art: Renaissance to the Present (3)
- 23.230 Major European Writers I: An Introductory Survey (3)
- 29.238 France Since Napoleon (3)
- 29.329 European Thought and Ideology (3)
- 37.324 Civilisation Française I (3)

- 37.325 Civilisation Française II (3)
- 37.326 French Topics (3)
- 37.328 French Translation: Concepts and Practice (3)
- 37.329 Le Français Commercial (3)
- 37.420 Les Registres du Français (3)
- 37.522 Le Siècle des Lumières (3)
- 37.523 Le Romantisme (3)
- 37.524 Le Réalisme (3)
- 37.525 Littérature Contemporaine (3)
- 37.529 Colloquium on France (3)
- 60.311 Modern European Movements (3)

German/Europe

- 07.101 European Art: Renaissance to the Present (3)
- 23.230 Major European Writers I: An Introductory Survey (3)
- 29.239 Modern Germany Since 1848 (3)
- 29.318 Nazi Germany (3)
- 29.329 European Thought and Ideology (3)
- 37.336 German Topics (3)
- 37.338 Introduction to German Translation (3)
- 37.431 Modern German Drama (3)
- 37.432 Studies in German Film (3)
- 37.433 German Lyric Poetry (3)
- 37.438 German Civilization I (3)
- 37.439 German Civilization II (3)
- 60.311 Modern European Movements (3)

Russian/Area Studies

- 23.367 Russian and Soviet Literature (3)
- 23.368 Dostoyevsky and Tolstoy (3)
- 29.225 Russia: Past and Present 3:2 (3)
- 29.230 Early Russian History, 988–1700 (3)
- 29.231 Imperial Russia, 1700–1917 (3)
- 29.232 Twentieth Century Russia (3)
- 29.345 Russian Studies (topics) (3)
- 37.347 Introduction to Russian Literature (3)
- 37.441 Russian Media and Political Translation (3)
- 37.540 Russian Structure (3)
- 37.543 Russian Classics (3)
- 37.545 Russian Drama (3)

Spanish/Latin America

- 29.241 Colonial Latin America (3)
- 29.242 Latin America Since Independence (3)
- 29.340 Latin American Studies (topics) (3)
- 37.210 Latin America: History, Art, Literature 3:2 (3)
- 37.356 Spanish Topics (3)
- 37.357 Introduction to Latin American Literature (3)
- 37.358 Introduction to Spanish Translation (3)
- 37.359 Advanced Spanish Translation (3)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)
- 37.491 Spanish Internship: *Proyecto Amistad* (2-6)
- 37.554 Classics of Latin American Literature (3)
- 37.559 Colloquium on Latin America (3)

- Six credits of course work in social science courses, selected from the following (other appropriate area studies courses may be substituted with the approval of the major adviser):

French/Europe

- 03.339 Culture Area Analysis: Europe (3)
- 19.302 Comparative Economic Systems (3)
- 19.307 Political Economy of Economic Development (3)
- 19.308 History of Economic Development (3)
- 29.238 France Since Napoleon (3)
- 29.329 European Thought and Ideology (3)
- 33.331 An Overview of the European Community (3)
- 33.355 The Relations of West European Nations (3)
- 33.530 Colloquium on the Common Market (3)
- 33.533 Seminar on the European Community's Current Programs (3)
- 33.557 Foreign Policy Formulation in West European States (3)
- 53.232 Politics of Industrial Societies (3)
- 53.432 Political Institutions and Processes in Selected Countries: France (3)
- 53.532 Political Institutions and Processes in Selected Regions: Western Europe (3)

German/Europe

- 03.339 Culture Area Analysis: Europe (3)
- 19.302 Comparative Economic Systems (3)
- 19.307 Political Economy of Economic Development (3)
- 19.308 History of Economic Development (3)
- 29.239 Modern Germany Since 1848 (3)
- 29.318 Nazi Germany (3)
- 29.329 European Thought and Ideology (3)
- 33.331 An Overview of the European Community (3)
- 33.355 The Relations of West European Nations (3)
- 33.530 Colloquium on the Common Market (3)
- 33.533 Seminar on the European Community's Current Programs (3)
- 33.551 Politics and Society in Europe Since 1945 (3)
- 33.557 Foreign Policy Formulation in West European States (3)
- 53.232 Politics of Industrial Societies (3)
- 53.432 Political Institutions and Processes in Selected Countries: Germany (3)
- 53.532 Political Institutions and Processes in Selected Regions: Western Europe (3)

Russian/Area Studies

- 03.339 Culture Area Analysis: Eastern Europe (3)
- 19.302 Comparative Economic Systems (3)
- 19.307 Political Economy of Economic Development (3)
- 19.308 History of Economic Development (3)
- 19.552 Economic Transition in Eastern Europe and New Independent States (3)
- 29.225 Russia: Past and Present 3:2 (3)
- 29.230 Early Russian History, 988-1700 (3)
- 29.231 Imperial Russia, 1700-1917 (3)
- 29.232 Twentieth Century Russia (3)

- 29.345 Russian Studies (topics) (3)
- 33.258 Contemporary Russia (3)
- 33.259 Comparative Change in East Europe (3)
- 33.359 Russia and Central Eurasia in World Affairs (3)
- 33.381 Foreign Policies of the Great Powers (3)
- 33.558 Authoritarianism and Democracy in Russia (3)
- 37.200 Russia and the United States 3:2 (3)
- 53.432 Political Institutions and Processes in Selected Countries: Former USSR (3)
- 53.532 Political Institutions and Processes in Selected Regions: Eastern Europe (3)

Spanish/Latin America

- 03.339 Culture Area Analysis: Mexico and Central America; South America (3)
- 19.302 Comparative Economic Systems (3)
- 19.307 Political Economy of Economic Development (3)
- 19.308 History of Economic Development (3)
- 19.555 Political Economy of Latin American Development: Theories versus Realities (3)
- 29.241 Colonial Latin America (3)
- 29.242 Latin America Since Independence (3)
- 29.340 Latin American Studies (topics) (3)
- 33.276 Contemporary Latin America (3)
- 33.337 International Development (3)
- 33.577 International Relations of Latin America I (3)
- 33.578 International Relations of Latin America II (3)
- 33.582 International Organizations and Latin American Development (3)
- 53.432 Political Institutions and Processes in Selected Countries: Mexico (3)
- 53.532 Political Institutions and Processes in Selected Regions: Central America; Latin America (3)
- 65.230 Conflict and Change in Latin America 3:2 (3)
- 65.531 Regional Studies in Social Change: Latin America (3)

Senior Seminar (3 credit hours)

- 33.401 Senior Seminar in Language and Area Studies (SIS)
or
37.401 Senior Seminar in Language and Area Studies (LFS)

Other Options

- Students may, where appropriate, and with Faculty Advisory Committee approval, select special topics courses to fulfill requirements.
- Student may also apply up to 3 credit hours toward the major from an approved internship or Cooperative Education Field Experience.
- Study abroad course credits may be used toward the major with the approval of the Faculty Advisory Committee.

University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors

coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

Minor in Language and Area Studies

- A total of 24 credit hours

Course Requirements

- Twelve credit hours in the Department of Language and Foreign Studies at the 200 level or above, including two courses at the 300 level.

- Twelve credit hours selected from an approved list of courses in area studies:

Courses include those from anthropology (03.xxx), economics (19.xxx), history (29.xxx), international studies (33.xxx), literature (23.xxx), or sociology (65.xxx)

One 3 credit course must be at the 300 level or above from SIS; one 3 credit course must be from history

Areas offered:

French/Europe, German/Europe, Russian/Area Studies,

Spanish/Latin America: See list of approved courses for major in Language and Area Studies, above.

Japanese/Asia: Consult LAS degree program adviser for approval of courses for this minor.

B.A. in Interdisciplinary Studies: Communication, Legal Institutions, Economics, and Government (CLEG)

Refer to the Department of Government section in the School of Public Affairs chapter for information on requirements for this program.

Pre-engineering Program

Students may receive two bachelor's degrees in a five year period through the cooperative pre-engineering program offered by American University and either Washington University in St. Louis, or the University of Maryland at College Park. See the pre-engineering section under the College of Arts and Sciences in this catalog for more information.

Environmental Studies Programs

Issues concerning the environment are assuming significant roles in shaping the social, economic, and political structures at both national and international levels. The B.A. in Environmental Studies is a rigorous, interdisciplinary program of studies designed to provide the student with a basic understanding of the scientific and social processes that shape our environment. Students completing the program will have the fundamental knowledge and the critical thinking skills to make independent, rational, decisions concerning current and pressing environmental issues.

A new generation of environmental professionals is needed to solve the myriad environmental problems faced by society. The M.A. in Environmental Policy and the M.S. in Environmental Science programs emphasize the multidisciplinary nature of environmental studies while retaining disciplinary strength and rigor. The diversity of course offerings covers topics including environmental toxicology, conservation biology, environmental economics and environmental policy, with both domestic and international scope.

B.A. in Environmental Studies

Students follow one of two tracks, each consisting of a core and a set of related courses. The core of each track provides a solid foundation based on the natural sciences as well as the social sciences. The student then builds upon the core by choosing from an approved list of related courses spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. A careful choice of related courses, made in consultation with a faculty adviser, will allow the student to

tailor a program of study suited to his or her specific interests and professional goals.

The Environmental Science track, stressing the natural sciences, requires a core of 55 credit hours and at least 12 credit hours of related courses. The Environmental Policy track, emphasizing the social sciences, requires a minimum of 49 credit hours for the core, plus at least 12 credit hours of related courses. The related course requirement includes a social research methodology course and at least three additional courses within one of three clusters (Social and Economic Issues, Global Issues, or Governmental Issues).

Students interested in Environmental Studies are encouraged to participate in the Freshman Environmental Experience program offered by the Division of Student Life and the Department of Biology prior to the beginning of the fall semester. Students in the program experience several aspects of environmental issues through group discussions with faculty and area experts, as well as participation in local area projects, such as maintenance of state or regional park trails.

Each student in the program is also encouraged to gain practical field experience through an internship at one or more of the many public and private environmental organizations in the Washington, D.C. vicinity, such as the Environmental Protection Agency, the Smithsonian Institution, the Chesapeake Bay Foundation, and the Nature Conservancy. Participation in internships will typically take place during the junior or senior year. A maximum of 3 credit hours of internship may be counted towards the related course requirement.

Graduates of the program will be prepared for employment in natural resource fields dealing with basic and applied scientific interests, management and policy making, or for graduate

level training in environmental studies and in professional programs in law, health and medicine, or business.

Admission to the Program

Admission to the program is through formal declaration of the major through the Department of Biology.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- Environmental Science track: Completion of a minimum of 67 credit with grades of C or better
 - Environmental Policy track: Completion of a minimum of 61 credit with grades of C or better
- Twelve credit hours may also count toward fulfillment of the General Education Requirement

Course Requirements

Environmental Science Track (67 credit hours)

Core (55 credit hours)

Environmental Studies

- 08.102 Seminar in Environmental Issues (1)
- 08.492 Senior Capstone in Environmental Studies (3)
- One of the following:
 - 19.375 Economics of Environmental Policy (3)
 - 33.388 International Environmental Politics (3)
 - 53.370 Formation and Implementation of Environmental Policy (3)

Natural Sciences

- 09.110 General Biology I 5:1 (4)
- 09.210 General Biology II 5:2 (4)
- 09.423 Introduction to Ecology (3)
- 15.110 General Chemistry I 5:1 (4)
- 15.210 General Chemistry II 5:2 (4)
- Two of the following:
 - 08.360 Environment and the Atmosphere (3)
 - 08.375 Water Resources (3)
 - 15.401 Geology (3)

Social Sciences

- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 33.105 World Politics 3:1 (3)
- 53.110 Politics in the United States 4:1 (3)
- 65.389 Society and the Global Environment (3)

Mathematics/Statistics

- 41.221 Calculus I (4)
- 42.202 Basic Statistics (4)

Related Course Requirements (12 credit hours)

- A minimum of 12 credit hours selected from the following:
 - 08.505 Energy (3)
 - 08.510 Climatology (3)
 - 08.520 Environmental Geophysics (3)
 - 08.580 Environmental Science I: A Quantitative Approach (4)
 - 08.581 Environmental Science II: A Quantitative Approach (4)
 - 08.582 Environmental Law (3)
 - 09.404 Biology of Plants with Laboratory (4)
 - 09.410 Invertebrate Zoology with Laboratory (4)
 - 09.440 Microbiology with Laboratory (4)
 - 09.552 Field and Laboratory Methods in Water Quality Analysis (4)
 - 09.565 Field Ecology (3)
 - 15.310 Organic Chemistry I (3) *and*
 - 15.312 Organic Chemistry I Laboratory (1)
 - 15.320 Organic Chemistry II (3) *and*
 - 15.322 Organic Chemistry II Laboratory (1)
 - 15.350 Quantitative Analysis (3) *and*
 - 15.351 Quantitative Analysis Laboratory (2)
 - 15.501 Principles of Analytical Chemistry (3)
 - 15.507 Chemical Literature (1)
 - 51.105 College Physics I 5:1 (4) *or*
 - 51.110 University Physics I 5:1 (4)
 - 51.205 College Physics II 5:2 (4) *or*
 - 51.210 University Physics II 5:2 (4)
 - 53.370 Formation and Implementation of Environmental Policy (3) (if not taken for core requirement)
- A maximum of 3 credit hours from:
 - 08.392 Cooperative Education Field Experience (3)
 - 08.490 Independent Study Project in Environmental Studies (1-6)
 - 08.491 Internship (1-6)

Other courses may be substituted only with approval of the Environmental Studies coordinator.

Environmental Policy Track (61 credit hours)

Core (49-51 credit hours)

Environmental Studies

- 08.102 Seminar in Environmental Issues (1)
- 08.492 Senior Capstone in Environmental Studies (3)
- 19.375 Economics of Environmental Policy (3)
- 33.388 International Environmental Politics (3)
- 53.370 Formation and Implementation of Environmental Policy (3)

Social Sciences

- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 33.105 World Politics 3:1 (3)
- 53.110 Politics in the United States 4:1 (3)
- 65.389 Society and the Global Environment (3)

Natural Sciences

- 09.110 General Biology I 5:1 (4)
- One of the following:
09.250 Living in the Environment 5:2 (3)
09.210 General Biology II 5:2 (4)
- 15.110 General Chemistry I 5:1 (4)
- One of the following:
15.220 Environmental Resources and Energy 5:2 (3)
15.210 General Chemistry II 5:2 (4)
- One of the following:
08.360 Environment and the Atmosphere (3)
08.375 Water Resources (3)
15.401 Geology (3)

Mathematics

- One of the following:
41.211 Applied Calculus I (4)
41.221 Calculus I (4)

Related Course Requirements (12 credit hours)

- A minimum of 12 credit hours selected from one of the following clusters:

Social and Economic Issues Cluster:

- One of the following:
19.310 Introduction to Econometrics (3)
42.202 Basic Statistics (4)
65.320 Introduction to Social Research (3)
 - Three of the following:
08.582 Environmental Law (3)
19.300 Price Theory (3)
19.309 Public Economics (3)
19.325 Social Choice and Economic Justice (3)
19.379 Economics of Energy, Resources, and Environment (3)
65.372 Law, Rights, and Society (3)
65.423 Social Policy Research (3)
65.425 Social Advocacy and Social Change (3)
- A maximum of 3 credit hours from:
- 08.392 Cooperative Education Field Experience (3)
 - 08.490 Independent Study Project in Environmental Studies (1–6)
 - 08.491 Internship (1–6)

Global Issues Cluster:

- One of the following:
33.206 Introduction to International Relations Research (3)
42.202 Basic Statistics (4)
- Three of the following:
03.543 Anthropology of Development (3)
08.582 Environmental Law (3)
19.307 Political Economy of Economic Development (3)
19.311 International Economics (3)
33.210 Human Geography: Peoples, Places, and Cultures 3:2 (3)
33.307 Quantitative Approaches to International Politics (3)
33.308 Introduction to Peace and Conflict Resolution (3)
33.321 International Law (3)
33.325 International Organization (3)

- 33.337 International Development (3)
- 33.400 Senior Seminar in International Relations (3) (for SIS double majors only)

A maximum of 3 credit hours from:

- 08.392 Cooperative Education Field Experience (3)
- 08.490 Independent Study Project in Environmental Studies (1–6)
- 08.491 Internship (1–6)

Governmental Issues Cluster:

- One of the following:
42.202 Basic Statistics (4)
53.310 Introduction to Political Research (3)
 - Three of the following:
08.582 Environmental Law (3)
53.210 Political Power and American Public Policy (3)
53.352 Law and the Political System (3)
53.425 Governmental Regulation and Deregulation (3)
54.260 Administrative Politics (3)
- A maximum of 3 credit hours from:
- 08.392 Cooperative Education Field Experience (3)
 - 08.490 Independent Study Project in Environmental Studies (1–6)
 - 08.491 Internship (1–6)

Minor in Environmental Science**Requirements**

- A minimum of 22 credit hours with at least 12 credits unique to the minor

Course Requirements

- 08.102 Environmental Issues (1)
- 08.360 Environment and the Atmosphere (3)
- 08.375 Water Resources (3)
- 15.110 General Chemistry I 5:1 (4)
- 15.210 General Chemistry II 5:2 (4)
- 15.401 Geology (3)
- 41.211 Applied Calculus I (4) or 41.221 Calculus I (4)
- Students whose major requirements include 15.110, 15.210, and 41.211/41.221 take an additional course as approved by the Environmental Studies coordinator

Combined Bachelor's Degree and M.A. in Environmental Policy or M.S. in Environmental Science

This program enables qualified students to earn both an undergraduate degree (in any field) and an M.A. in Environmental Policy or an M.S. in Environmental Science. The combined program can be completed with four years of undergraduate study plus 12 months of additional study (fall and spring semesters plus a summer of research or internship). The program offers students an opportunity for strong training and careers in environmental science or policy.

Admission to the Program

Undergraduates should apply for admission to the combined program by the end of the junior year. At a minimum, students must have:

- An overall grade point average of 3.00 (on a 4.00 scale) or higher
- A year of laboratory science (09.110/210 General Biology I/II, 15.110/210 General Chemistry I/II, 51.105/205 College Physics or 51.110/210 University Physics I/II)
- A year of calculus (41.221/222, 41.211/212)
- Applications must be accompanied by two letters of recommendation and a statement of purpose. Graduate Record Examination (GRE) scores are not required for admission to the combined program.

Students should discuss their interest in the program with the Environmental Studies coordinator before submitting an application.

Requirements

- All requirements for a B.A. or B.S. (in any major) at American University
- All requirements for the M.A. in Environmental Policy or M.S. in Environmental Science

Students may use up to 8 credits hours of approved course work at the 500-level or above to satisfy both degrees. Especially recommended are 08.580 Environmental Science I and 08.581 Environmental Science II.

M.S. in Environmental Science

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, students must have completed one year of calculus, and one year of laboratory science (biology, chemistry, geology, or physics). A semester or more of economics is recommended. Admission is based on academic record, personal statement and two letters of recommendation. The Graduate Record Examination (GRE) is recommended.

Degree Requirements

- A total of 35 credit hours of approved graduate work, including 26 hours of required courses and 9 credit hours of course work with an area of concentration
- One comprehensive examination. A maximum of two attempts is permitted.
- Six credit hours of 08.681 Environmental Research Seminar and Practicum and 08.691 Environmental Science Research in lieu of a thesis (included in the required 35 credit hours)

Course Requirements

- 08.580 Environmental Science I: A Quantitative Approach (4)
- 08.581 Environmental Science II: A Quantitative Approach (4)
- 08.681 Environmental Research Seminar and Practicum (3)
- 08.691 Environmental Science Research (3)

- 19.500 Price Theory (3) (prerequisites may be waived with permission of instructor) *and*
- 19.579 Energy, Economics, Resources and the Environment (3)
- or*
- 33.651 International Environmental Politics (3) *and*
- 54.606 Foundations of Policy Analysis (3)
- 42.514 Statistical Methods (3)
- 42.515 Regression (3)

Area of Concentration (9 credit hours)

- One of the following (or another concentration approved by a faculty adviser):

Conservation Biology

- 08.572 Topics in Conservation Biology (3)
- 09.552 Field and Laboratory Methods in Water Quality Analysis (3)
- 09.565 Techniques of Ecological Research (3)

Earth and Atmospheric Science

- 08.505 Energy (3)
- 08.510 Climatology (3)
- 08.520 Environmental Geophysics (3)

Toxicology

- 15.501 Principles of Analytic Chemistry (3)
- 15.671 Principles of Toxicology (3)
- 15.682 Toxicological Testing (3)

M.A. in Environmental Policy

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, students must have completed one year of calculus and one year of laboratory science (biology, chemistry, geology, or physics). A semester or more of economics and a semester of geography are recommended. Admission is based on academic record, personal statement and two letters of recommendation. The Graduate Record Examination (GRE) is recommended.

Degree Requirements

- A total of 38 credit hours of approved graduate work, including 26 credit hours of core courses, a 3-credit hour research capstone, and 9 credit hours of course work in an area of concentration
- One comprehensive examination. A maximum of two attempts is permitted.
- A thesis or substantial research paper plus an internship for the research requirement
- Foreign language competence is required for concentrations with an international focus

Course Requirements**Core***Theory (6 credits)*

- 33.519 Special Studies in International Politics: International Environmental Politics (3)
- 54.606 Foundations of Policy (3)
or
19.541 Public Economics (3)

Economics (6 credits)

- 19.500 Price Theory (3)
- 19.579 Energy Economics, Resources and the Environment (3)

Science (8 credits)

- 08.580 Environmental Science I: A Quantitative Approach (4)
- 08.581 Environmental Science II: A Quantitative Approach (4)

Methods (3 credits)

- One of the following:
33.600 Introduction to Quantitative International Relations (3)
42.514 Statistical Methods (3)
54.601 Methods of Problem Solving I (3)
Capstone (3 credit hours)
- One of the following:
33.649 Environment and Development (3) (prerequisite:
33.637 International Development)
54.609 Policy Implementation (3)

Research Requirement (3 credit hours)

- One of the following:
33.795 Master's Research Requirement (3) (substantial research paper plus internship)
33.797 Master's Thesis Supervision (3)

Area of Concentration (9 credit hours)

- Nine credits hours (three courses) in a focused topic area, selected in consultation with and approved by a program adviser. International concentrations marked by * require foreign language competence certification. Suggested topic areas include:

*Comparative Politics**Environment and Development***Environmental Economics**Environmental Policy Analysis**International Law and Organization***Public Management**U.S. Foreign Economic Policy***Conservation Biology**Earth and Atmospheric Science**Toxicology**Methodology*

Dual and Joint Degree Programs

Juris Doctor and Master's Dual Degree Programs

The following programs offer students the opportunity to receive both a J.D. from the Washington College of Law and a master's degree in International Affairs, Justice, Law and Society, or Business Administration.

J.D. and M.A. in International Affairs, offered by the School of International Service and the Washington College of Law. See the School of International Service chapter for admission and degree requirements.

J.D. and M.S. in Justice, Law and Society, offered by the School of Public Affairs and the Washington College of Law. See the School of Public Affairs chapter for admission and degree requirements.

J.D. and Master of Business Administration, offered by the Kogod College of Business Administration and the Washington College of Law. See the Kogod College chapter for admission and degree requirements.

M.A. in International Peace and Conflict Resolution and Master of Theological Studies

Graduates receive an M.A. in International Peace and Conflict Resolution from the School of International Service and the Master of Theological Studies from Wesley Theological Seminary. See the School of International Service chapter for admission and degree requirements.

M.A. /M.B.A. in International Affairs and Business Administration

The Kogod College of Business Administration and the School of International Service offer a joint degree program through which students earn a master's degree in International Affairs with a concentration in Comparative and Regional Studies combined with a Master of Business Administration.

Students must apply to and be accepted by both schools. Admission is for full-time students only. During the first year of the program, students move through the program as members of a cohort. Students also participate in a required orientation and special workshops as part of the program.

Admission to the Program

Applicants must hold an accredited bachelor's degree with a cumulative grade point average of at least a B+ (3.30 or higher on a 4.00 scale) and should have had at least 24 credit hours of social science course work relevant to international studies. Students who do not meet these minimum requirements, if otherwise admissible, are assigned additional course work specified at the time of admission.

Students must apply to both the School of International Service (SIS) and the Kogod College of Business Administration. Admission to either of the participating teaching units in no way implies admission to the other unit. For more information on admissions requirements, contact the SIS Graduate Office at (202) 885-1690 or the Kogod Office of Graduate Programs at (202) 885-1913.

Admission is for full-time enrollment only. Cohorts will be maintained for the first year, as students take a prescribed sequence of courses and participate in required program orientation and special workshops.

All applicants are required to submit results of the aptitude section of the Graduate Record Examination (GRE) and the Graduate Management Admission Test (GMAT). In addition, international applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). The minimum TOEFL score for full consideration is 600. (See the International Student Information chapter in this catalog for more information.) All applicants should plan to take the GRE and TOEFL no later than the December administration each year to ensure full consideration of application by the January deadline.

All applicants must submit two letters of reference evaluating undergraduate academic performance and suitability for graduate study in international affairs and business.

Requests for the transfer of a maximum of 12 graduate credit hours from other accredited institutions to be applied to the degree are considered after successful completion of 9 credit hours in the graduate program at the American University. A minimum grade of B (3.00) in each course is required for transfer. Transfer courses must have been completed within seven years of admission and must fulfill stated requirements of the degree program.

Degree Requirements

- At least 62 credit hours of approved graduate course work with a cumulative grade point average of 3.00
- Proficiency in a modern foreign language:
Research competence in English and another language relevant to the student's career objectives must be certified by the university's Department of Language and Foreign Studies. Students must demonstrate substantive language proficiency, at the FS-3 level at least, in a language appropriate for research in the geographic region of major focus.

- Passage of one written comprehensive examination in the major field for degree. To be eligible to take a comprehensive examination, a student must have advanced to candidacy and must have maintained at least a 3.00 grade point average (on a 4.00 scale) in all graduate course work. Information pertaining to comprehensive examinations is contained in the SIS Field Statements available in the SIS Graduate Office.
- Substantial research paper requirement

Course Requirements

M.A. Major Field Course Requirements (21 credit hours)

- 33.672 Theories of International and Comparative Studies (3)
- 33.673 Comparative and Regional Political Economy (3)
- 33.674 Integrated Seminar in Comparative and Regional Studies (3) (taken toward the end of the degree program)
- Twelve credit hours of course work on a single geographic region or comparative subject as approved by SIS Associate Dean. Students may choose from the following regions or subjects: Africa, the Americas, Asia, Europe, the Middle East, Russia and Central Eurasia, Comparative Politics, or Islamic Studies. (See Field Statement for course recommendations and groupings pertaining to individual regions or subjects.)

Related Field (9 credit hours)

- 18.618 Manager in the International Economy (3)
- 33.621 International Law and the Legal Order (3) *or*
18.622 Business and Society (1.5) *and*
18.623 Legal Environment of Global Business (1.5)
- 33.642 Cross-Cultural Communication (3)

Social Science Research Methodology (7 credit hours)

- 18.610 Quantitative Methods I: Statistics in Managerial Decision Making (2)
- 18.611 Quantitative Methods II: Operations Research in Managerial Decision Making (2)
- 33.xxx SIS second-level methods course (3)

Research and Writing Requirement (3 credit hours)

- 18.626 Field Practicum (3)
- Substantial Research Paper in conjunction with approved SIS course

M.B.A. Course Requirements (22 credit hours)

- 18.601 Management Skills Practicum (1)
- 18.607 Financial Accounting Concepts and Applications (2)
- 18.608 Managerial Accounting Concepts and Applications (2)
- 18.609 Organizational Behavior and Human Resource Management (3)
- 18.612 Marketing Management (3)
- 18.614 Financial Management (3)
- 18.616 Management Information Systems (3)
- 18.621 Quality Management (2)
- 18.624 Applied Strategic Management in a Global Environment (3)

University Centers

Center for Global Peace

American University's Center for Global Peace is designed to promote interdisciplinary study and understanding of world peace by building upon the university's experience in the area of peace and conflict resolution studies. The center promotes outreach and cooperative efforts in the local and global community such as conflict resolution training, visiting scholars, and cross-disciplinary workshops; sponsors graduate and post-doctoral fellowships; and provides support for research initiatives as well as multidisciplinary curriculum development and team teaching.

Serving as a focal point for faculty and students interested in exploring issues in world peace and conflict resolution, the center also hosts seminars, speaker series, and other forums on topics relevant to the center's mission. Director of the Center for Global Peace is Prof. Abdul Aziz Said. A committee of AU faculty provides direction and clarity for the center's policies and practices. Program guidance and support is provided by the Board of Directors and the International Board of Advisors, drawn from scholars and practitioners in peace and conflict resolution.

Center for the Global South

Founded and directed by Ambassador Clovis Maksoud, the Center for the Global South is a multi-dimensional intellectual resource which examines critical issues affecting the poorer developing countries of the world, characterized collectively as the South.

The center explores issues related to global inequality, development, environment, human rights, women, population, the changing international legal order and regional cooperation, as well as new roles for the United Nations and other international and regional organizations. The center acts as a catalyst to promote dialogue about how these issues affect peoples and nations of the global South. The fundamental concern of the center is to assess what role the South can constructively play in the development of a new global order.

Through public lectures, conferences and publications, the center generates greater awareness and sensitivity toward the concerns of the peoples of the global South. Its activities provide links between students and faculty throughout the university and professionals outside of the university around common concerns related to the South.

International and Special Programs

- **Adult and Continuing Education**
- **Summer Sessions**
- **English Language Institute**
- **Washington Semester Programs**
- **Study Abroad Programs**

For information on any of the following programs, call the Special Programs Advising Center at (202) 885-2500, e-mail: adults@american.edu, or access the International and Special Programs home page at www.american.edu/academic/depts/isp/aspindex.htm.

Adult and Continuing Education

Education and training for adults at American University is a continuous, integrated effort which meets the needs of members of the local, national, and international communities. American University serves the educational needs of adults through full- or part-time study by helping them determine realistic personal and professional educational goals, enrich their knowledge, and improve their technical and professional qualifications. To this end, the university designs and implements academically stimulating programs for lifelong education and learning through evening, weekend, off-campus, and contract educational programs, and through certificate programs and noncredit seminars. Adults may earn undergraduate and graduate credit without formal admission to degree status. If admitted to degree status, adults earn their degrees in the same fashion as full-time students.

Nondegree Student Status

Adults who wish to take credit courses with degree seeking students but are not ready to apply for admission may do so as nondegree students. Credits earned in nondegree student status may transfer into degree programs. Nondegree students register through the Special Programs Advising Center (SPAC), McKinley Building 153. For information on nondegree student status, call (202) 885-2500.

Return-to-School Programs

American University has a long-standing commitment to serve the educational needs of adults. The university has designed its return-to-school programs for adults who wish to begin or resume work towards a bachelor's degree, for adults who may earn credits for life experience, and for those who wish to pursue noncredit professional development opportunities. Evening orientations are held at least once a month. For an orientation schedule, call (202) 885-2500.

Credit for Life Experience

The Assessment of Prior Experiential Learning (APEL) program enables adults to earn undergraduate academic credit for life experience gained through work, volunteer activities, military service, travel, and community service. The APEL program assists adults in translating their years of experience into college credit. Students describe, analyze, and document their learning experiences. University faculty members assess the resulting portfolio and award academic credit based on the depth and quality of the presented work. Students can earn up to the equivalent of one year of full-time study. Up to half of these credits but no more than 12 credits may be applied toward the university residency requirement.

The APEL program is designed for adults who have been out of high school for at least eight years. Its curriculum consists of two sequential courses. The first, 23.205 *Issues, Ideas, and Words* is a literature course focused on critical reading, effective writing, and analytical thinking. This course provides adults an important introduction to the skills necessary for success in the preparation of their portfolio and subsequent university course work. During the second course, 21.240 *Analysis of Experiential Learning*, students identify, document, and analyze their experiences and produce the portfolio which is assessed by a faculty member for possible credit award.

For further information about the APEL program call (202) 885-2500.

Bachelor of Arts in Liberal Studies

This program is designed for students eight years or more out of high school who seek a flexible degree program that encourages them to bring together their personal and professional goals in the design of their academic major. The Bachelor of Arts in Liberal Studies major encourages students to combine liberal arts studies with a specialization. Specializations are available any of the minors offered by American University.

Admission to the Program

All students must apply to the Bachelor of Arts in Liberal Studies program by writing a proposal stating their core and specialization courses and an accompanying 300–400 word essay explaining their goal and the relationship among chosen areas and courses.

Students interested in being admitted to the Bachelor of Arts in Liberal Studies degree program should talk initially with an academic counselor in the Special Programs Advising Center (SPAC), (202) 885-2500. Once admitted to the program, academic advising will be provided by SPAC as well as the faculty and academic counselors from the appropriate teaching unit.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from each of the five curricular areas in an approved sequence.
- No more than 6 credit hours may be taken in the same discipline.

Major Requirements

- Complete a 42–48 credit hour major with grades of C or better, as outlined below.

The major consists of a 24 hour core area and an 18–24 credit specialization, both of which offer a number of structured alternative choices.

Core Area

- 24 credit hours chosen from fields of study in one of three core areas: the humanities, the social sciences, or sciences/mathematics.

The core area must include course work in four fields of study. Six credits are to be taken in each field; at least 3 credits in each of the four fields must be earned in a course numbered 300 or higher. For students taking the Sciences/Mathematics core, a minimum of 6 credits in total must be taken in courses numbered 300 or higher. No more than three courses taken for General Education credit may also count toward core area requirements.

Fields of Study by Core Area

Humanities

Art
Art History
Foreign Language
Jewish Studies
Literature
Performing Arts
Philosophy
Religion

Social Sciences

American Studies
Anthropology
Communication
(designated courses) *
Economics
Education
(designated courses) *
History
Political Science
Psychology
(designated courses) *
Sociology

Sciences/Mathematics

Biology
Chemistry
Computer Science
Information Systems
Mathematics
Physics
Psychology
(designated courses) *
Statistics

* Designated courses: Academic counselors will provide students with a list of approved courses.

Specialization

In addition to the core area courses, students in the Bachelor of Arts in Liberal Studies program are required to complete 18–24 credits in a specialization. This specialization may be chosen from the list of university approved minors in the introductory chapter of this catalog. *Note:* if the minor taken for the specialization requires 24 or more credits, student may request reducing their core requirements from 24 to 21 credits. However, the core must still include at least 18 credits offered by the College of Arts and Sciences.

Students may select a specialization that complements their core area, or they may choose a specialization that is a new area of study. In all cases the student is encouraged to design a core area and a specialization that reflects the student's particular interests and goals.

Requirements for the specialization in the Bachelor of Arts in Liberal Studies degree are met when a student completes the requirements for a minor approved for the program. No more than two courses taken for General Education credit may be applied to a student's specialization. See Fields of Study in the Undergraduate Study chapter for a list of university minors currently approved for this program.

Certificate Programs

A certificate awarded by American University at any level is an emblem of professional achievement widely recognized by corporate and government employers. Certificate programs consist of a prescribed sequence of credit courses concentrating in particular career fields. Most certificate programs consist of the core courses required for related degree programs. A maximum of 18 hours of academic credit earned may be applied later towards a degree. A student's acceptance into a nondegree certificate program, however, does not in any way assure later acceptance into a degree program. To be eligible for enrollment in an undergraduate certificate program, students must have completed high school or the equivalent. Eligibility for a graduate certificate requires completion of a bachelor's or advanced degree.

The following certificates are available for students enrolled in nondegree student status. For more information and specific requirements, see the department program description.

Department of Chemistry

- Graduate Certificate in Toxicology

Department of Computer Science and Information Systems

- Graduate Certificate in Information Systems
- Graduate Certificate in Information Resource Management (IRM)
- Graduate Certificate in Systems and Project Management (SPM)

Department of Economics

- Graduate Certificate in Applied Economics

Department of Language and Foreign Studies

- Undergraduate Certificate in Translation in French, German, Russian, or Spanish
- Graduate Certificate in Translation in French, Russian, or Spanish
- Certificate in Teaching English to Speakers of Other Languages

Department of Performing Arts

- Graduate Certificate in Arts Management
- Graduate Certificate in Dance
- Graduate Certificate in Dance and Health Fitness Management

Department of Public Administration

- Graduate Certificate in Organizational Change
- Graduate Certificate in Public Financial Management
- Graduate Certificate in Public Management

Department of Mathematics and Statistics

- Undergraduate Certificate in Applied Statistics
- Graduate Certificate in Applied Statistics

Department of Sociology

- Graduate Certificate in Social Research

Professional Development

Graduate certificate programs can be designed to meet specific career or professional development needs. In conjunction with academic and faculty advisers, students develop a proposed sequence of courses which must be approved by the appropriate school or department. For information on these certificate programs call (202) 885-2500.

Weekend Master's Programs

Weekend master's degree programs are offered to accommodate the schedules of working adult professionals. Special weekend programs are also offered for business and association employee groups at their facilities. To make arrangements for such programs, call (202) 885-2513.

Master of Arts in Communication: Journalism and Public Affairs (Print Journalism)

The School of Communication offers a weekend graduate program leading to a Master of Arts degree in Journalism and Public Affairs. The program accommodates working adults interested in print journalism and the reporting of public policy issues. Participants in the program will develop an understanding of the ethics, credibility, legal aspects, and economic realities of the American media while mastering and refining the reporting, writing, and editing skills necessary to excel professionally. Students work with faculty members who are experts in the field and who have a genuine interest in the students' progress and professional goals.

Courses required for this option meet on Saturdays and can be completed in 20 months. For more information about the program call (202) 885-2500.

Master of Arts in Communication: Journalism and Public Affairs (Radio and Television News)

The School of Communication offers a weekend graduate program leading to a Master of Arts degree in Journalism and Public Affairs designed for professionals who want to become proficient in electronic journalism. Students explore the values and realities of the journalism profession while gaining competence in the practical skills that are required to create and produce news and public affairs programs. Working with state-of-the-art equipment, participants will research and produce news reports and participate in the weekly creation of broadcast news programs.

Courses required for this option meet on Saturdays and can be completed in 20 months. For more information about the program call (202) 885-2500.

Master of Arts in Communication: Producing for Film and Video

The School of Communication offers a weekend graduate program leading to a Master of Arts degree in Producing for Film and Video. The program accommodates working adults interested in careers as producers, business managers, and entrepreneurs in the rapidly growing field of film and video production. Adult students of varied educational backgrounds and diverse career experience can explore the values and realities of the producing profession while mastering the practical skills required to produce film and video programs.

Courses required for the program meet on Saturdays and can be completed in 20 months. For more information call (202) 885-2500.

Master of Arts in Communication: Public Communication

The School of Communication offers a weekend graduate program leading to a Master of Arts degree in Public Communication. The program's roots are in communication research, and its emphasis is on developing communication generalists who can apply communication and management theories to public relations practice. The program accommodates working adults who want to gain the essential skills to effectively and ethically convey the issues of contemporary society in a number of areas such as corporate public relations, government and political media relations, direct media, arts communication, and public interest communication.

Courses required for this option meet on Saturdays and can be completed in 20 months. For more information about the program call (202) 885-2500.

Master of Arts in International Affairs

The School of International Service offers an opportunity to earn an M.A. in International Affairs with a concentration in International Economic Policy designed for professionals whose schedules make weekend classes preferable. Professionals with diverse career experience can explore the field of international economics in a comparative perspective. The 39-credit hour degree program is completed within two years. Students work with their faculty advisers during the second year formulating an integrative research project. Comprehensive examinations are normally completed during the second year of study. Students work together with a small cohort of professionals, fostering a supportive learning environment. For more information about the program call (202) 885-2500.

Master of Science in Information Systems

The College of Arts and Sciences offers a weekend graduate program leading to a Master of Science degree in Information Systems. The program's focus is on the analysis, design, implementation, and management of the complex information systems used in most businesses and in the federal government. An outstanding benefit of this program to students and their employers is that assignments focus on the application of techniques and methodologies in their own organizations. Courses include experientially based teaching methods. Electronic communications such as fax and e-mail augment the course of study to provide extended contact between students and faculty. The weekend graduate program in information systems is for professionals whose schedules make weekend classes, every third Friday and Saturday, a preferable alternative to full-time study. Students can complete the degree requirements in 24 months. For more information call (202) 885-2500.

School of Public Affairs Weekend Programs

For admission, degree and course requirement information on the following graduate weekend programs, see the School of Public Affairs chapter.

The Key Executive Program is designed to meet the executive development needs of senior government managers. The twenty-month course of study in the skills, knowledge, and values needed by top-level public executives offers participants the perspectives and competencies necessary for effective performance in high level executive and managerial work. The curriculum includes the major activity areas used in certifying candidates for career positions in the Senior Executive Service. Students successfully completing the program are awarded the Master of Public Administration. For more information call (202) 885-3857.

The Organization Development Program is administered jointly by the Department of Public Administration and the NTL Institute for Applied Behavioral Science and is designed for persons who want to improve their professional skills in the field of organization development. Students successfully completing the 36-credit hour degree program are awarded the Master of Science in Organization Development. For more information call the AUNTL Office at (202) 885-6206.

The Personnel and Human Resource Management Program is a weekend program of study designed to educate students for specific careers in the human resource management field. Students progress as a group through this program, taking courses from both the Department of Public Administration and the Kogod College of Business Administration, leading to the M.S. in Personnel and Human Resource Management. For more information call (202) 885-2375.

Summer Sessions

Students attending summer sessions may choose from over 400 courses in forty fields of study during six separate sessions. Students may also choose from a variety of special summer programs. A full complement of regular courses is scheduled to allow students to continue their progress toward a degree or certificate or to pursue academic directions they have been unable to explore during other terms. Many students use the summer for an internship or cooperative education placement.

Highly selective during the academic year, the university welcomes students in good standing at other colleges and universities to its summer programs.

Institutes and Special Summer Programs

Institutes, featuring short-term credit and noncredit educational opportunities, are frequently offered during the summer by several academic units. The topics of these institutes vary widely and change from summer to summer. Recent programs have included: Campaign Management Institute; Nuclear History Institute; Film and Video Institute; and Educating for Global Citizenship Institute.

Summer Study Abroad

Opportunities for unique study abroad programs are offered by American University professors through courses and institutes in their fields. Students have the opportunity to pursue particular themes in these programs. Programs change from one summer to the next, and the university usually offers three to five programs each summer.

For further information on summer study, call (202) 885-2421.

Community Studies

The Community Studies Scholarship Program provides financial assistance primarily to low-income adults residing in the District of Columbia and the greater Washington, D.C. metropolitan area who are the first generation in their families to attend college and are members of minority groups. For information on the Community Studies Scholarship contact the Financial Aid Office at (202) 885-6100. See also the Tuition, Expenses and Financial Aid chapter for more information.

Workplace, Community, and International Programs

At the Workplace

Corporations, government agencies, and associations can take advantage of American University programs offered at the workplace. Options include certificate and degree programs or professional development workshops. The curriculum may be tailored to meet company training needs. Scheduling is flexible for the convenience of employees, and programs are particularly cost-effective for companies that provide tuition reimbursement.

In the Community

The university offers certificate and degree programs and courses throughout the Washington, D.C., Maryland, and Virginia areas. Programs are designed to meet the educational and personal needs of students who wish to attend the university at a location near their homes or places of employment. Programs and courses are also designed for organizations that want to encourage the educational or professional development of their employees.

International Partnerships

American University's International Partnerships assist international organizations and students by working with them to meet their education and training agendas. International programs offer credit and non-credit training for groups and individuals. Programs of study are designed to meet specific training needs and can last from three days to three years. Students and professional trainees have access to university facilities and are instructed by American University faculty and experts in the Washington area. To enrich the educational experience, English language instruction, educational tours, and internships are often included in the program.

For more information about any of these programs call (202) 885-2513.

English Language Institute

The English Language Institute (ELI) offers regularly scheduled courses in English as a second language as well as special programs designed for sponsored groups of students. All regularly scheduled courses are designed to meet the specific needs of nonnative speakers of English who wish to attend universities in the United States. ELI's objective is to provide nonnative speakers with the opportunity to develop the linguistic proficiency and cultural awareness necessary for successful academic work. ELI accomplishes this objective through the courses and special workshops it offers in its two principal programs: the University Certificate Program and the Support Program. Both programs operate throughout the academic year and the summer session, with courses lasting fourteen weeks during the fall and spring semesters and twelve weeks during the summer.

University Certificate Program

The University Certificate Program is an intensive program designed for full-time students. It satisfies requirements for full-time study for international students on F-1 (student) visas but does not carry credit. It is also open to students interested in enrolling on a part-time basis. To be eligible, prospective students must already possess basic competency in English and either be admitted to the university or qualify for enrollment as nondegree students.

Students in the certificate program take courses in grammar, reading, writing, and listening/speaking. In the fall and spring, they may also enroll in special study-skills workshops and in integrated skills courses in particular content areas. Qualified full-time students in the program may take one regular university course for credit at no additional charge in place of a course in a skill area in which they are already proficient. University students not enrolled in the certificate program may take courses and workshops in the program as needed.

Upon successfully completing the program by passing at least three courses at their highest level and taking required workshops, students are awarded a certificate of completion. They may then continue their studies as either admitted or nondegree students, taking courses in the Support Program concurrently with academic study.

Students placed in four courses in the Certificate Program are considered to be full time in that program and may not take academic courses concurrently. Exceptions require permission from both ELI and the student's adviser.

Support Program

The Support Program is a nonintensive program designed to meet the needs of students beyond the certificate level who are ready to take academic courses. To be eligible, students must already have developed the English proficiency necessary for effective written and oral participation in graduate or undergraduate academic courses. Most students in the Support Program take academic courses concurrently with their English language studies. Two of the courses in the program offer credit and may be used to satisfy the university English requirement. Graduate students in the program may enroll in workshops and a special seminar designed to assist them with their specific writing needs.

Admission to the English Language Institute

ELI students come from one of three groups: those who are interested only in English-language studies and have not applied for admission to university degree programs; those who have been referred to ELI as part of the admissions process; and those who have been admitted to university degree programs but must first develop college-level proficiency in English. All admitted students whose first language is not English and who do not meet the criteria described under "International Student Information" are referred to ELI for English evaluation at the beginning of their first session. After evaluating these students, ELI either waives requirements for English studies or places the students in appropriate courses in the Certificate Program or the Support Program. Evaluations determine the required course sequence and the number of courses which may be taken outside the institute.

Washington Semester Programs

Established in 1947, the Washington Semester Program offers intercollegiate study of several fields in which Washington, D.C., provides a unique perspective. More than 200 colleges are associated with the program, and each semester over 400 students from across the country, around the world, and from American University meet to pursue full programs that feature seminars with decision makers and people involved in the policy process. Students also undertake an internship in their field of interest and complete either an intensive research project or a course elective from regular university offerings.

Washington Semester in American Politics: National Government or Public Law

This is the original program and covers the American national governmental and political system as a whole. Institutions covered include the Congress, the executive branch, parties and interest groups, the courts, and the communications media; certain units focus on public law. The program is taught by members of the faculty of the School of Public Affairs.

Washington Semester in Economic Policy

Taught by faculty from the Department of Economics, this is an intensive examination of the macro and micro dimensions of policy making in the national capital. The program is designed for students with an interest in practical as well as theoretical matters. The focus is on stabilization policy in all of its aspects—theoretical, practical, and political; environmental and energy economics; the international economy and recent developments in the international monetary field; and the effects of the multinational corporation. Additional topics include tax policy, poverty and the attempts to reduce it, antitrust actions and the role of big business, and urban economic policy.

Washington Semester in International Business and Trade

Washington, D.C. is the ideal laboratory for studying international business and trade. The first part of the program explores major issues, such as export/import procedures, foreign investment, and political risk analysis, while the latter part of the semester analyzes specific business opportunities in the Middle East, Latin America, Eastern Europe, and the Pacific Rim.

Washington Semester in International Environment and Development

In this semester students combine hands-on experience on two continents by spending twelve weeks in Washington, D.C. and three weeks in Kenya (fall semester) or Costa Rica (spring semester) focusing upon global environmental preservation and sustainable development. In Washington, students study the policy-making process, U.S. international assistance policy, and such issues as the role of women in development, conservation financing, and the merits of voluntary action and micro-enterprise support. Students then investigate the implementation of these policies in the field in Kenya or Costa Rica.

Washington Semester in Foreign Policy

Originated as the Washington International Semester in the fall of 1970, the International Politics and Foreign Policy Semester is taught by faculty from the School of International Service. The semester provides students with an opportunity to observe and study the manifold governmental, international, and private activities which contribute to the United States' position in world affairs.

Washington Semester in Journalism

The School of Communication offers this intensive study of journalism in Washington, D.C. The news stories and issues that make up Washington journalism and the people and institutions that cover them are the focus of this one semester program. The program is not open to American University communication majors.

Washington Semester in Justice

Taught by faculty from the Department of Justice, Law and Society, this program provides a realistic picture of the processes of the criminal justice system. The program focuses on the interrelationships of the institutions operating in the criminal justice system (law enforcement, courts, corrections); the various occupational specialties; the problems of civil justice systems; the role of research; and the local, national, and international levels of the justice system.

Washington Semester in Museum Studies and the Arts

Students in this program go behind the scenes at cultural institutions and attend presentations by professionals in the museum and arts world to acquire an in-depth understanding of key issues and concerns in the field. The semester offers students an opportunity to explore the rich collections and special exhibitions of some of America's major museums, to study the cultural history of the nation through its architecture and public monuments, and to learn key aspects of running museums and other cultural organizations.

Washington Semester in Peace and Conflict Resolution

The goal of the Washington Semester in Peace and Conflict Resolution is to allow students to participate in building a global society based on peace, freedom, justice, and a diminished level of violence. Taught by faculty from the School of International Service, the semester includes conflict-resolution theory, history, and methodologies. Students are also introduced to the skills needed for nonviolent, nonexploitative conflict resolution. The semester is designed to broaden students' understanding of the forces that move a society—either toward a heightened level of violence and exploitation or toward positive social change.

Washington Summer Internship

Students from colleges and universities across the United States are offered the opportunity to gain career-related, on-the-job experience through working and learning in the nation's capital. Students intern with a professional or government office four and a half days a week and attend an academic seminar the other half day per week in conjunction with the work experience. The program is open to students who are not currently enrolled at American University. American University students should consult their academic departments concerning summer internship opportunities. The program is offered every summer for nine weeks.

Study Abroad Programs

The World Capitals Program offers the opportunity for students to study abroad and gain full American University course credit. Students choose from programs in Beijing, Brussels, Buenos Aires, Copenhagen, London, Madrid, Moscow, Paris, Prague, Rome, and Santiago. Seminars, an integral part of many World Capitals programs, are a chance for students to interact with public officials and political and cultural leaders. Internships in most programs are available in government, business, and other political and social organizations. Depending on the program, courses are given in liberal arts, international relations, language, social sciences, and business. Some of these programs may be used for the second-level course requirements in the General Education Program.

Semester in Beijing/Hong Kong

Offered every fall semester, the Semester in Beijing keeps pace with China's rapid development. Students study at China's premier school for international business, the University of International Business and Economics (UIBE), and live in an on-campus guest house. The cornerstone of the program is the daily intensive Mandarin language course. Students also take courses in Chinese history and Chinese economic cooperation, taught in English. In addition, they prepare an independent study project. Local excursions and a two-week trip to southern China and Hong Kong introduce students to business people and organizations as well as famous sites in Chinese history and culture.

Semester in Berlin

Offered every fall semester, the Semester in Berlin focuses upon the reunified Germany and the new capital of Europe's leading economic power. Students study at the Free University of Berlin and live in dormitory residences in the city. All students enroll in two German language courses offered at different levels to accommodate student proficiency. Students also select from courses taught in English on the history and culture of Berlin, contemporary Germany, international relations and Germany, and a two day per week internship. Field excursions and guest speakers are an integral aspect of the program.

Semester in Brussels

Offered every fall and spring, the Semester in Brussels provides students the opportunity to study in the heart of the European Union (EU). Brussels is the best place to find out how the EU will affect Europe's relations with the United States and the rest of the world. Students learn from experts in international economics, politics, and security through guest lectures and site visits. A high-ranking official from the North Atlantic Treaty Organization (NATO) and a noted Belgian economist teach European Economics and Security, a core curriculum component. Classes are held and offices housed at the Université Catholique de Louvain's Brussels campus. Students take classes, intern, and live with a host family, gaining a new perspective on all aspects of Belgian and European culture.

Semester in Buenos Aires

Buenos Aires, the seat of a young democratic government, is an ideal environment for observing the characteristics and challenges of a political system only a decade old. Students witness how privatization has affected the operations of companies that were formerly run by the government. They gain historical insight into the steps to democracy from those who laid the groundwork for change—individuals from the church, government, universities, business, and labor. Students have the opportunity to improve their Spanish language ability through language instruction, internships, and family homestay arrangements. The program is offered every fall semester.

Semester (or Year) in Copenhagen

Copenhagen, the capital city of what many people deem one of the most advanced countries of the world, combines the new and modern with rich, historical tradition. Students study in one of many tracks, including humanities and social sciences, international business, and marine biology and environmental studies. Students observe Denmark's innovative—and sometimes controversial—methods of handling its economic and social problems. All courses are conducted in English by Danish professors and professionals, in conjunction with Denmark's International Study Program (DIS). Academic field trips are specific to the tracks offered. The program is offered every fall and spring. Students choose between a family homestay and a dormitory.

Semester in London

Offered every fall and spring semester, the Semester in London program offers students the opportunity to explore present-day British politics and culture. In the seminar course, students meet with members of Parliament, diplomats, journalists, and interest group representatives. Students also take courses in the history of London and theater in England from excellent local faculty. Walking tours, theater visits, and a field trip to the continent complement course offerings. Students live with a host family. Internships offer valuable experience and direction in participants' academic and career goals, whether in the area of government and politics, public relations, international business, theater, education, media, or law.

Semester in Madrid

Offered every spring, the Semester in Madrid program takes students into the heart of Spain to study foreign policy, history, political science, Spanish language, and culture. Madrid, with its blend of Moorish influences, Renaissance architecture, and Bourbon and neo-classical design, enchants students at every turn. Students put language skills to work in courses taught at the Universitas Nebrissensis, internship sites, and family homestays. Eurocrats, journalists, and politicians join the resident director and faculty as guest lecturers, providing a first-hand perspective on the political, cultural, and economic factors affecting Spain. Class excursions and two extensive field trips complement course work.

Semester in Moscow

Russia's recently opened borders have unveiled a rich display of history and culture in the city and its people. The Semester in Moscow program invites students with two years of college-level Russian language, or the equivalent, to examine Russia's evolving sociopolitical culture as it is undergoing daily transformation. Students are immersed in the study of Russian language and culture through lectures, readings, course assignments, homestay family placement, and internships. Discussions with professionals from the media as well as the political, economic, and social arenas offer students an unparalleled view of the changes taking place and those just beginning to emerge. The program is hosted by the Moscow State University and is conducted primarily in Russian.

Semester in Paris

A center of culture and academic life, Paris is an invaluable resource for studying global economic and political issues as well as civilization and culture. As a major base for multinational businesses and international organizations, Paris gives students the opportunity to gain experience interning in an international environment. The art, architecture, and literature of Paris provide an intellectually stimulating environment for students of French language and culture. Students learn about and become a part of the daily life of the city while living with a French host family. Introductory course work in economics and three semesters of college level French, or the equivalent, are required for admission to the program, which is offered every spring semester.

Semester in Prague

Students experience the Czech Republic's newfound freedom and resurgence of creative energy. In the spring, students enjoy a curriculum of humanities and social sciences at Charles University. In the fall, students can enroll in the film and theater curriculum at the Prague Film Academy (FAMU) or the humanities and social sciences curriculum at Charles University. Both universities are renowned for their faculty and academic programs. The required core seminar course during either semester allows students to listen to those who brought about social and economic change. Students also study the Czech language and have the opportunity to intern. Academic field trips provide travel through varying parts of eastern Europe. Students live in an international dormitory.

Semester (or Year) in Rome

Rome, a living museum, provides students one of the richest displays of art and architecture in the world. Students may study history, cinema, Italian language, literature, sociology, art, and architecture at the American University of Rome. Classes are taught in English by the resident director and a European faculty, who emphasize Italian and European culture in every aspect of the curriculum. On-site visits and specially organized seminars with Italian artists, historians, and writers allow students to see the age-old city through a perspective unavailable elsewhere. Academic field trips to Pompeii and Venice provide an exciting first-hand way to learn Italian history from the earliest civilizations to the present day. Students reside in dormitory style apartments.

Semester in Santiago

Offered every spring semester, the Semester in Santiago gives students access to this "blessed copy of Eden," which is transforming from military rule to democracy. Business and community leaders present the class with a wide range of views about Chile's developing structure, the social mores and attitudes of the people, and the roles of the church, family, and social institutions. Language skills are developed daily in homestays, in Spanish language classes, and in internships for students with sufficient language ability. Field trips within Chile give students the opportunity to see the country as a whole. Two years of Spanish language, or the equivalent, are required for admission.

Institute for Learning in Retirement

American University has become nationally recognized for its leadership in providing continuing learning opportunities for older adults through its affiliation with the Institute for Learning in Retirement (ILR). In 1982 ILR was established as a membership organization for persons in the metropolitan Washington, D.C., area and rapidly grew to 400 members.

The ILR offers a unique opportunity for persons who are over the age of 50, retired or semi-retired, who wish to continue their learning at the university level. Members of the institute are men and women with varied career backgrounds. They elect a governing board and, through committees, design their own curriculum of noncredit courses and plan a variety of special activities, including lectures, tours, and special interest groups.

The curriculum consists of two ten-week terms, fall and spring, offering about fifty study groups each term. Study groups meet for two hours once a week and cover a wide range of subjects, from foreign languages, history, and current events to music, art, and philosophy. Courses are taught by study group leaders who are members of the ILR. Winter and summer intersessions provide additional opportunities for learning.

An annual membership fee entitles members to register in study groups without additional cost (except in certain special cases) and to participate in all other ILR activities. It also provides university privileges, including parking at a special rate, access to the library and dining hall, and attendance at lectures and cultural events for free or at reduced rates. Information about membership is available by calling the Institute for Learning in Retirement at (202) 885-3920.

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Community Service Learning

xx.94 Community Service Learning Project (1) Undergraduate students may earn credit for community service performed in conjunction with a course in which they are enrolled. A related academic component and at least 40 hours of field work are required. *Prerequisite:* Permission of course instructor and an orientation session through the Office of the Dean of Students. *Note:* May be taken pass/fail only; a maximum of 3 credits may be applied toward graduation.

Cooperative Education

Undergraduate

xx.392 Cooperative Education Field Experience (3-9) Credit for substantive approved work assignments is available. Usually offered every term. *Prerequisite:* completion of 30 credit hours of college courses, good academic standing with the university, approval of academic adviser, and work with the Cooperative Education Program office in the Career Center. *Note:* departments may have additional prerequisites; refer to specific course listings.

Graduate

xx.692 Cooperative Education Field Experience (3-6) Credit for substantive approved work assignments is available. Usually offered every term. *Prerequisite:* completion of 9 credit hours of course work, good academic standing with the university, approval of academic adviser, and work with the Cooperative Education Program office in the Career Center. *Note:* departments may have additional prerequisites; refer to specific course listings.

University Honors Program

01.300 Honors Colloquium in Arts and Humanities (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.301 Honors Colloquium in Natural and Mathematical Sciences (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.302 Honors Colloquium in Social Sciences (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.390 Honors Independent Reading Course (1-6)

01.490 Honors Independent Study Project (1-6)

American Studies

Undergraduate Courses

02.140 Washington, D.C.: Life Inside a Monument (3) Explores the unique nature of Washington as an international city, national capital, black-American cultural center, and home for its varied residents. Discussions include tensions between federal presence and local democracy, tourism, political and cultural activities, migration and immigration, geography and the cityscape and neighborhood life. Usually offered every spring and summer.

02.205 American Dreams/American Lives 2:2 (3) Changing American ideals and experiences. An interdisciplinary study of key themes in American self-definition (e.g., equality, opportunity, the changing landscape) as articulated by theorists and as challenged by an increasingly diverse urban and technological nation. Emphasis on ordinary citizens as well as institutions. Usually offered every fall. *Prerequisite for General Education credit:* 23.115 or 29.100 or 76.150. *Note:* not open to students who have taken 02.202.

02.210 Folk Traditions, Community, and Identity (3) Case studies of diverse social and ethnic groups—and their verbal, material, and ritual folk traditions—reveal the ways in which folklore reflects beliefs, value systems, regional and community identity, and history. Students interpret (and occasionally collect) traditions concerning religion, work, race and ethnicity, gender, class, age, and family life. Usually offered every fall.

02.230 Tribal Traditions 2:2 (3) Cultural and spiritual traditions of tribal societies and their persistence despite Western expansion and enforced acculturation. Class activities highlight American Indian economics, political systems, and the place of language, oral literature, music, and ceremony in Indian societies. Similarities among indigenous societies of America, Africa, Asia, and the Pacific are stressed. Usually offered every fall. *Prerequisite for General Education credit:* 60.105 or 61.105.

02.240 Poverty and Culture 4:2 (3) Students explore and debate rival theories about the causes and consequences of poverty. Why poverty occurs, why certain people are poor, how poverty influences family and community life, and how the poor respond to their situation and sometimes try to change it. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 19.100 or 65.150.

02.321 American Decades (3) Political and economic affairs, international relations, social change, literature, drama, music, and fine and popular arts in one decade of American life. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

02.324 Reinventing American Families (3) Interplay in American life between symbols of proper families, ideas about what is natural, and Americans' diverse choices, commitments, and experiences as they make homes together. Topics include adoption, step-kinship, gay parents, single parents, class differences, ethnic variety, public policy implications. Offered irregularly.

02.334 Contemporary American Culture (3) Interdisciplinary exploration, through politics, ethnography, literature, film, and art, of institutions and attitudes with decisive influence on the shape and quality of contemporary American culture. Rotating topics include work, violence, visions of the future, the culture business, women and men, women in the popular media, and language in the United States. May be repeated for credit in the same term; topic must be different. Usually offered every fall.

02.341 Research on the City of Washington (1-6) Student group research on special topics and projects in Washington. Offered irregularly.

02.390 Independent Reading Course in American Studies (1-6)

02.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* authorization of program director.

02.400 Interpreting American Culture (4) Seminar in American Studies theory and methods. Classic, emerging, and controversial approaches to American culture through such mixed media as architecture and photography, original documents and literary criticism, folklife and foodways, television and music. Usually offered alternate springs.

02.410 Senior Thesis I (3) Original interdisciplinary research as a capstone to the major. Students also meet in a seminar to compare experiences and discuss ways to translate American Studies theory and method into practical and professional concerns. Usually offered every fall. *Prerequisite:* 02.400.

02.411 Senior Thesis II (3) Usually offered every spring. *Prerequisite:* 02.400.

02.490 Independent Study Project in American Studies (1-6)

02.491 Internship in American Studies (1-6) Practical experience in a local organization such as a government office, museum, arts agency, or social action group. How to translate American Studies theory and method into professional skills and opportunities. Interns also meet in a seminar to discuss and interpret these experiences. *Prerequisite:* Authorization of instructor and department chair.

Anthropology

Undergraduate Courses

03.110 Culture: The Human Mirror 3:1 (3) People around the world create and use systems of symbols to express their identities as members of social groups. This course draws on diverse life-cycle experiences in tribal, state-level, and post-colonial societies to explore ways that both tradition and contact with other cultures contribute to the cultural pluralism of the contemporary world. Usually offered every term.

03.150 Anthropology of American Life 4:1 (3) How race, gender, class, ethnicity, age, and region affect Americans' experiences of interwoven historical, economic, political, scientific, religious, and cultural processes. Usually offered every fall.

03.200 Cities in Global Perspective (3) The city, as one type of human community, is examined in terms of its special social and cultural features. Students carry out field research in the Washington, D.C. metropolis to gain first-hand experience in research methods (and to use their comparative study of cities for interpreting local knowledge) for such topics as ethnicity, kinship, class, and gender. Usually offered every spring.

03.201 Cultural Anthropology (3) An exploration of cultures to document their critical importance as the unique tool of human survival. The course provides the framework for an appreciation of cultural differences and similarities and thereby increases understanding of the complex world with which we must cope. Usually offered every spring.

03.210 Roots of Racism and Interracial Harmony 3:2 (3) Examines why racism has often characterized the relations between human groups, and compares these cases with other societies which have been nonracist. Social stratification, ideas about the nature and role of individuals, and economic factors are considered within and across cultures. The course links analysis of the past to possible social action. Usually offered every term. *Prerequisite for General Education credit:* 33.140 or 29.120.

03.215 Sex, Gender, and Culture 3:2 (3) How economic systems, social structures, and values construct and redefine biological distinctions between women and men. Topics include gender in egalitarian societies; origins and consequences of patriarchy; gay and lesbian cultures; gender, politics, and social change. Case studies from tribal, state-level, and post-colonial contexts. Usually offered every term. *Prerequisite for General Education credit:* 03.110 or 23.150.

03.220 Living in Multicultural Societies 3:2 (3) Foreign trade, foreign aid, tourism, and migration establish ties between peoples and cultures in spite of political and historical divisions. This course examines the effect of international migration and the growing "one-world" economy on the daily lives of peoples around the world and in the emerging multicultural urban centers in the United States. Usually offered every spring. *Prerequisite for General Education credit:* 33.110 or 33.140.

03.225 Language and Human Experience 1:2 (3) Language and its contribution to creativity. The course explores how knowledge of language enriches human experience. Topics include imagery and metaphor building through language; the effects of topic, speaking situation, and gender on creativity in tribal, state-level, and post-colonial contexts; and ways written language recasts and redefines human imagination. Usually offered every fall. *Prerequisite:* permission of instructor or, if taken for *General Education credit*, 23.105 or 23.120 or 67.115.

03.230 India: Its Living Traditions 3:2 (3) The rich diversity among peoples and cultures of India through time and the significance of various traditions for contemporary life. Individual experiences of caste, class, gender, and sect are examined, as are outside influences on social patterns and modes of thought, revealing complex interplay between tradition and modernity, India and the West. Usually offered every spring. *Prerequisite for General Education credit:* 03.110 or 61.185 or 65.110.

03.251 Perspectives in Cultural Anthropology (3) Exploration of a variety of current perspectives in cultural anthropology. The kinds of questions anthropologists ask in seeking to understand cultural variation and diverse human experience. Relevance of anthropology to life in a changing, multicultural world. Usually offered every fall.

03.252 Human Origins (3) The contributions that physical anthropology and archaeology can make toward an understanding of the origins and development of humankind. Topics include genetics, the principles of evolution as applied to humans, the nonhuman primates and their behavior, human fossils, and the archaeology of the New and Old Worlds. Usually offered every term. *Note:* not open to students who have taken 03.202 Human Origins.

03.253 Introduction to Archaeology (3) Introduction to archaeology as a subfield of anthropology. Topics include the history of archaeology, methods of archaeological excavation and analysis, the historical archaeology of seventeenth and eighteenth century America, paleolithic archaeology in the Old World, the prehistory of North and South America, and other current discoveries and topics within the field. Usually offered every spring. *Note:* not open for credit to students who have taken 03.334 Modern Archaeology.

03.254 Language and Culture (3) Examines connections between language, culture and society. Topics include: grammars as systems of knowledge; language and cognition; structure of everyday discourse; language diversity; speech communities; language change; literacy and language planning. Usually offered every spring. *Prerequisite:* 03.251 or permission of instructor.

03.331 Human Variation (3) The genetic and environmental factors which influence modern human variation. Topics include genetics, growth and development, disease, nutrition, and adaptation. The role of biological evolution in determining present characteristics as an important unifying concept. The role of culture in this evolution is considered throughout the course. Usually offered every spring.

03.335 Culture and the Self (3) An exploration of the ways that cultural forces influence biographical pathways, life experiences, the patterning and expression of emotions, and the experience of mental illness. Emphasis on the emergence of the self in everyday interaction and at the intersection of language and thought. Usually offered alternate falls.

03.336 Social Structure (3) Comparative study of structure and function of political, religious, and kinship arrangements in simple and complex societies. Topical emphasis varies for different semesters. Emphasis on conflict and integration, ideas and beliefs as symbols of social relations, and problems of individual choice. Usually offered alternate springs.

03.339 Culture Area Analysis (3) Examinations of particular culture areas to provide insight into the conditions that produced distinctive cultures in certain geographical regions. Examples are North American Indians, Latin America, Mexico and Central America, North American ethnic groups, Europe, India, Africa, China, and Japan. Meets with 03.639. May be repeated for credit in the same term; topic must be different. Usually offered every term.

03.342 Women and Work (3) Work roles of women throughout the world. Analyzes historical and contemporary changes in the notion of work and women's labor since the industrial revolution. Topics include unpaid work within the household and for family

enterprises, as well as formal salaried enterprises. Usually offered alternate falls.

03.350 Special Topics (3) Comparison and analysis cross-culturally and within selected culture areas. Topics include: cultural perspectives on sports, war and aggression, rites of passage, food and culture, rise of civilization, archaeology of the Chesapeake Bay region, North American prehistory, and historical archaeology. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* 03.251 or permission of instructor.

03.390 Independent Reading Course in Anthropology (1-6)

03.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

03.430 Magic, Witchcraft, and Religion (3) A comparative study of magic, witchcraft, and religion in Western and non-Western societies. Topics include an analysis of ritual behavior and the ritual process, mythology, sorcery, and revitalization movements. Usually offered every fall.

03.431 Taboos (3) Exploration of those persons, items, experiences, and acts which so frighten and repel humans that they try to prohibit them. Includes discussion of topics rich in taboo and sensitivity, including: sexuality, witchcraft, cannibalism, human-animal relations, madness, and death. Why taboos emerge, how they are enforced, and when they are violated. Usually offered alternate springs.

03.445 Developments in Anthropological Theory (3) Current theory and its historic roots. A capstone course drawing on method and theory in archaeology, linguistics, sociocultural anthropology, and physical anthropology. Usually offered every fall. *Prerequisite:* junior or senior standing in anthropology. *Note:* Not open to students who have taken 03.545 Developments in Anthropological Theory.

03.450 Senior Seminar (3) Issues in description and analysis viewed from the perspective of writing ethnography. Comparative exploration of anthropological forms of writing. Relation to travel writing, diaries, and novels. Focus on problems such as audience, authority, and objectification. Attention to contemporary experimental ethnographies. Usually offered every spring. *Prerequisite:* senior standing in anthropology.

03.490 Independent Study Project in Anthropology (1-6)

03.491 Internship in Anthropology (1-6) Experience in local agencies involving the transfer of anthropological thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair and instructor.

03.498 Senior Thesis in Anthropology (1-6) Opportunity for qualified undergraduates to carry out anthropological research under supervision of members of the faculty. Development of a written paper and participation in senior thesis seminar are required. A maximum of six credit hours may be earned under this course number. May be repeated for credit but not within the same term. Usually offered every term. *Prerequisite:* permission of department chair.

Graduate and Advanced Undergraduate Courses

03.531 Archaeology (3) Topical courses in archaeology. Areas and topics offered include: historical archaeology, artifact analysis, archaeology of the Potomac Valley, the archaeology of North America and Mesoamerica, and archaeological laboratory practice. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* 03.253 or permission of instructor.

03.532 Culture Change (3) All significant ideas about the nature of human culture center either on issues of cultural stability or change, and stability itself is often a result of change. As anthropology focuses on today's world, an understanding of culture change is especially important. This course explores ways to understand culture change. Usually offered every spring. *Prerequisite:* 03.251 and one additional course in cultural anthropology, or graduate standing.

03.534 Economic Anthropology (3) Discussion of the principal issues linking anthropological method and theory to the nature and organization of production, distribution, and consumption in Western and non-Western society. Substantive and formalist approaches to the description of economic institutions. Subsistence and commercial production, reciprocity and redistribution, market exchange, and aspects of consumption are examined with reference to a variety of case studies. Usually offered alternate springs. *Prerequisite:* 03.251 and one other course in social/anthropology, or permission of instructor.

03.535 Ethnicity (3) Ethnicity. Ethnic identity. Ethnocide. The reaction to these terms ranges from pleasure and pride to horror. Ethnicity all over the world has become a means whereby groups in large, complex societies defend their interests, avoid alienation, and create powerful rituals of self-preservation and defense. African, European, and American ethnic attitudes and experiences are discussed and compared to illustrate these themes. Offered irregularly. *Prerequisite:* one course in social or cultural anthropology, e.g. 03.251.

03.537 Topics in Language and Culture (3) Comparative perspectives on the interrelationships of cultural and linguistic patterns in different societies. Case studies focus on language variation and pluralism as related to verbal creativity, social hierarchies, gender diversity, language history, and colonialism and nation building. May be repeated for credit, but not within the same term; topic must be different. Usually offered alternate summers. *Prerequisite:* permission of instructor or one course in anthropology or linguistics.

03.542 Principles of Applied Anthropology (3) The role of anthropology in formulating policy and implementing social and cultural change, and in community self-determination, health, education, urban and ethnic affairs, poverty, and crime. Usually offered every fall.

03.543 Anthropology of Development (3) Anthropological approaches to the analysis of economic development and change, with attention both to development theory and to practice. Development problems as perceived at the local level, contemporary development concerns, and the organization of development agencies and projects are considered. Usually offered every fall.

03.544 Topics in Applied Anthropology (3) A discussion of case studies and examples illustrating the application of anthropological method and theory to solving practical problems in contemporary society. Regularly recurring topics include: anthropology of education, bilingual education, medical anthropology, health and nutrition, public archaeology, and anthropology of public policy. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

03.550 Ethnographic Field Methods (3) Using a series of research exercises, students learn how to collect genealogies, gather censuses of research populations, conduct directed and nondirected interviews, map research areas, work with photographic data, collect life histories, observe as participants, write research proposals, and evaluate

data. Ethical and methodological fieldwork problems are stressed throughout. Usually offered alternate falls.

03.552 Anthropological Research Methods (3) An introduction to research methods used within the field of anthropology, including ethnography, the distinctive tool of the field. Includes research design, data collection, quantitative and qualitative analysis. Ethics and pragmatics of research are discussed, including research funding and proposal writing. Usually offered every spring. *Prerequisite:* two courses in anthropology or graduate standing.

03.553 Data Banking and Multivariate Techniques (3) A consideration of storing and retrieving anthropological data and analysis. Both small and large scale data banks are studied. Analysis of the retrieved data using such techniques as factor, cluster, and proximity analysis is also covered, with a consideration of computer graphics for anthropological use. Usually offered alternate falls. *Prerequisite:* 03.552 and 42.202.

03.560 Summer Field School: Archaeology (3-9) Active participation in the excavation of an archaeological site. Training varies depending on the site, but usually includes site surveying, archaeological engineering, techniques of excavation, flora, fauna, and soil analysis, field laboratory practice, and on-site computer data processing. May be repeated for credit but not in the same term; topic may be the same. Usually offered every summer.

03.590 Independent Reading Course in Anthropology (1-6)

Graduate Courses

03.631 Proseminar: Cultural and Social Anthropology (3) A graduate-level overview of both the history of cultural and social theories and methods and the contemporary concerns of anthropology. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

03.634 Proseminar: Archaeology and Physical Anthropology (3) A graduate-level overview of recent work, focusing on archaeological data: their nature, strengths and weaknesses, collection, analysis, and application to anthropological goals. Also considers the role of physical anthropology in the discipline. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

03.637 Proseminar: Anthropological Linguistics (3) An overview of important themes in anthropological linguistics as they relate to method and theory in general anthropology. Usually required of all incoming anthropology graduate students; consult the department chair. Usually offered every spring. *Prerequisite:* graduate standing in anthropology and 03.631; or graduate standing in the TESOL master's program and six graduate hours in linguistics; or permission of instructor.

03.639 Culture Area Analysis (3) Examinations of particular culture areas to provide insight into the conditions that produced distinctive cultures in certain geographical regions. Examples are North American Indians, Latin America, Mexico and Central America, North American ethnic groups, American culture and society, Europe, India, Africa, China, and Japan. Meets with 03.339. May be repeated for credit in the same term; topic must be different. Usually offered every term.

03.640 Current Issues in Anthropology (3) Seminar discussion of a particular problem of contemporary interest and its relationship to anthropological method and theory. Topic changes each semester. Usually offered every term. May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of instructor.

03.690 Independent Study Project in Anthropology (1-6)

03.691 Internship in Anthropology (1-6) Experience in local agencies involving the transfer of anthropological thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair.

03.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

03.797 Master's Thesis Seminar (1-6) Usually offered every term.

03.799 Doctoral Dissertation Seminar (1-24) Usually offered every term.

Art: Studio and Design

Undergraduate Courses

05.100 Art: The Studio Experience 1:1 (3) Studio work in painting, drawing, design, and sculpture, focusing on the interrelationship of hand, eye, and mind in creating expressive works of art. Lectures, critiques, and museum visits relate basic visual language to analytic and creative processes of the artist. Usually offered every term.

05.205 Drawing: Responding to Vision 1:2 (3) Studio drawing course. Drawing from direct observation as a tool of discovery and as a process of analyzing vision. Students employ traditional materials and techniques to explore questions of form and expression presented through introductory lectures and demonstrations. Class critiques and museum assignments expand possibilities for individual development. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 17.105.

05.210 Painting: Color, Form, Expression 1:2 (3) Studio painting course. Problems in form and expression presented through studio work, informal work, informal slide lectures and demonstrations. Students learn the language of painting, its structure, and its potential for personal expression. Critical sensibilities are developed through museum visits and individual and group critiques. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 07.105.

05.215 Sculpture: Form and Expression in 3-D 1:2 (3) Clay sculpting from a model as a tool in learning to see. Students master the fundamental studio skills, become conversant with the art of the past, and begin to develop a personal vision. Slide lectures, demonstrations, and museum assignments augment the studio classwork. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 07.105. *Note:* not open to students who have taken 05.122 Fundamentals of Sculpture.

05.220 Design: Color Theory and Practice 1:2 (3) This studio course uses paint and color samples to develop a refined perception of the world. Students study the theory, visual properties, and psychological and physiological effects of color. Class exercises explore formal aspects of color and use them expressively to communicate ideas. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 17.105 or 67.160. *Note:* not open to students who have taken 05.150 Introduction to Design: Color.

05.225 Design: Form, Space, Vision 1:2 (3) A studio design course integrating materials, visual principles and the design process to solve graphic communication problems. Students develop a fluency in visual language to form a basis of aesthetic judgment and develop a method of analysis and inquiry which underlies creative thinking. Studio practice combines with class critiques and museum visits. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 67.115. *Note:* not open to students who have taken 05.151 Introduction to Design: Two-Dimensional.

05.230 Structural Drawing (3) An introductory studio course in freehand perspective and structural analysis of form. The class investigates the interaction of "seeing" and "knowing." Exercises progress from drawing simple geometric objects to more complex forms in architecture and nature. Studio includes traditional and alternative perspective systems, proportion and tonal rendering. Usually offered every fall.

05.300 The Italian Sketchbook (3) Using Italy as a source of inspiration, this course allows the student to perfect sketchbook techniques in both drawing and watercolor. The subject matter includes landscapes, architectural forms, and three-dimensional figures. The course is held on-site in Rome and throughout Italy and also entails a literary component. Offered only in Rome. Usually offered every term. *Prerequisite:* 05.205.

05.310 The History of Graphic Design (3) Graphic images have been used from prehistory to the computer age. A lecture-and-studio format presents the historical background for the graphic arts of calligraphy, typography, book design, mapping, diagramming, and illustration. Emphasis on the relationship of these applied arts to the fine arts, technology, and social history of the period as well as on the application of this visual language to contemporary design problems. Usually offered every fall. *Prerequisite:* general art survey or equivalent recommended.

05.320 Creative Painting (3) Studies in color, composition, and drawing from still life and figure. Individually assigned projects. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.210 or equivalent.

05.340 Sculpture (3) Problems and principles of sculpture. Acquaintance with tools, techniques, and materials for plastic expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.205 or 05.215.

05.344 Ceramics (3) Basic principles of working with clay. Instruction both in wheel and in other methods of making pottery. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

05.348 Design Techniques I (3) Concentration on the development of technical skills, creative thinking, and basic organizational and presentation processes. Usually offered every term. *Prerequisite:* 05.225 or permission of instructor.

05.349 Design: Computer Graphics I (3) The goal of this course is to enable students to use the Apple Macintosh computer as a tool in the process of solving design problems. A desktop publishing and illustration program will be taught. The concentration of the class will be geared towards proficiency in the programs. Usually offered every term. *Prerequisite:* 05.350 or permission of instructor.

05.350 Typography: Theory and Practice (3) Theory and analysis of letter forms as design and symbol. Study of type faces, arrangement, and setting. Usually offered every fall. *Prerequisite:* 05.348 or concurrent registration.

05.351 Design Techniques II (3) Exploration of advanced typographic problems, information organization and project development and presentation. Usually offered every term. *Prerequisite:* 05.349 and 05.350.

05.353 Typography: Color and Design (3) An exploration of structure, space, and color in visual communications through the study of type faces and the arrangement of words. Usually offered every term. *Prerequisite:* 05.350.

05.354 Production for Graphic Designers (3) An introduction to the technical procedures that translate graphic design from an idea to a printed piece. Includes development of comprehensive sketches, preparation of mechanicals, paper and ink selection, color separation, and printing procedures. Lecture, studio projects, and local field trips. Usually offered every fall and summer. *Prerequisite:* 05.351 or departmental permission.

05.355 Design: Computer Graphics II (3) An intermediate class that explores the use of type and image through the programs Quark Xpress, Adobe Illustrator, and Adobe Photoshop. Includes scanning and manipulation of photographic and illustrative images with typographic forms and integration of appropriate software packages to solve specific graphic design problems. Usually offered every term. *Prerequisite:* 05.349 or permission of department or instructor.

05.356 Advanced Design I (3) Concentration on the research, design and production of a complex design project. Emphasis on professional organizational and presentation skills. Topics include corporate identity, environmental graphics, advertising, promotional and multimedia design. Usually offered every fall. *Prerequisite:* 05.351 or permission of instructor.

05.357 Advanced Design II (3) Practical consideration and execution of complex design problems involving previous design training and preparation of portfolios. Usually offered every spring. *Prerequisite:* 05.356 or permission of instructor.

05.359 Illustration (3) Basic black-and-white illustration techniques including representational drawing and pictograms. Emphasis is on adaptation of illustration to reproduction. Usually offered every spring. *Prerequisite:* 05.348 or permission of department.

05.360 Drawing (3) Structural drawing from the human figure. Movement, expression. Range of techniques and media. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.205 or equivalent.

05.363 Introduction to Printmaking (3) An introduction to basic printmaking processes. Emphasis on the effect of different processes on imagery, visual thinking and individual development. Usually offered every fall. *Prerequisite:* one drawing class or equivalent or permission of instructor.

05.364 Printmaking: Woodcut and Surface Print (3) Woodcut and relief print as media of creative expression. Emphasis on experimentation and control. Usually offered every term. *Prerequisite:* two drawing courses or one drawing and one design course.

05.390 Independent Reading Course in Art (1-6)

05.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

05.490 Independent Study Project in Art (1-6)

05.491 Internship (3)

Graduate and Advanced Undergraduate Courses

05.520 Techniques of Etching (3) Investigation of etching and its various techniques. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.364 or two courses in drawing.

05.560 Drawing (3) Experiments in the creative and expressive qualities of drawing. Personal creative expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.590 Independent Reading Course in Art (1-6)

Graduate Courses

05.690 Independent Study Project in Art (1-6)

05.691 Internship (3)

05.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

05.700 Criticism of Painting (3) A theoretical and philosophical consideration of painting. Detailed analysis of artistic works. Lecture and slides. Usually offered every spring. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.792 Art Laboratory: Painting (3) Intensive investigation of ideas and techniques in painting. Emphasis on experimentation leading to development of individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.793 Art Laboratory: Sculpture (3) Intensive investigation of sculpture with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

05.795 Art Laboratory: Printmaking (3) Intensive investigation of printmaking with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

05.797 Master's Thesis Seminar (3-9) Independent work toward the thesis, with regular critiques and discussion. Consult the department for registration and participation requirements. Usually offered every term. *Prerequisite:* M.F.A. candidate with permission of department chair.

Art: Art History

Undergraduate Courses

07.100 European Art: From Cave to Cathedral 2:1 (3) This course examines artistic monuments from the paleolithic through medieval periods, including the religious, philosophical, and social forces that shaped them. Considered are Egyptian, Cretan, Grecian, Roman, Judaic, and Christian art and architecture from early basilicas through French Gothic cathedrals. Students are provided analytic tools for understanding art in history. Usually offered every term.

07.101 European Art: Renaissance to the Present (3) An illustrated introduction to architecture, sculpture, and painting in the Western world between 1400 and 1800. Usually offered every spring. *Prerequisite:* 07.100 recommended but not required.

07.105 Art: The Historical Experience 1:1 (3) An introduction to works of art in historical context. A selection of topics in Western art from prehistory to the present permits in-depth study of such major architectural monuments as the Parthenon, Chartres Cathedral, St. Peter's in Rome, and such artists as Michelangelo, Raphael, El Greco, Gentileschi, Rembrandt, the French Impressionists, and Picasso. Usually offered every term.

07.200 Art and Architecture in Rome (3) A survey of western art and architecture as exemplified in Roman museums, churches, palaces, and archaeological sites. Offered only in Rome. Usually offered every term.

07.205 Art of the Renaissance 2:2 (3) Architecture, sculpture, painting, and prints of Renaissance Italy and Northern Europe. Considering the interplay of art with philosophy, theology, and social change, this course examines the artistic legacy and rich creative achievements of a culture inspired by classical antiquity, but which also understood itself as a new historic era. Usually offered every spring. *Prerequisite for General Education credit:* 07.100 or 29.110 or 61.105.

07.210 Modern Art: Nineteenth and Twentieth Centuries 1:2 (3) An introduction to the art of the modern period. Presents in cultural and historical contexts the work of major artists such as David, Goya, Delacroix, Monet, Van Gogh, Cézanne, Picasso, Matisse, Duchamp, Pollock, and many others. The issue of what is unique about modern art and the expanding conception of creative expression in our era are emphasized. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 07.105 or 17.105 or 67.110.

07.215 Architecture: Washington and the World 1:2 (3) Appreciation of our architectural heritage and a study of its history through the great buildings of Washington. Monuments such as the White House and the Capitol are studied in relation to structures from which they have evolved. Students obtain a knowledge of building traditions of Washington, the United States, and the Western world. Usually offered once a year. *Prerequisite for General Education credit:* 07.105 or 17.105.

07.300 Baroque Art (3) Study of art and architecture during the Baroque Age, beginning with the Counter-Reformation movement, continuing to the advent of the Neo-Classical. Emphasis will be placed on the Italian roots of this style which later spread throughout Europe. Offered only in Rome. Usually offered every spring. *Prerequisite:* 07.101 or 07.105.

07.302 Roman Art (3) Art and architecture of Rome from the republic through the Empire. Meets with 07.602. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

07.303 Medieval Art (3) A survey of Medieval art covering Early Christian, Byzantine, Romanesque, and Gothic developments in architecture, painting, and sculpture. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

07.308 Gothic Art (3) Architecture, painting, sculpture, manuscript illuminations, and stained glass from the twelfth to the fifteenth century in Europe. Meets with 07.608. Offered irregularly. *Prerequisite:* 07.100 or 07.105 or 07.303.

07.309, 07.310 Museum Studies and the Arts Seminar I (4), II (4) Takes students behind the scenes at cultural institutions, attending presentations by professionals in the museum and arts world. Students are introduced to the key issues and concerns in the field of museology and the arts. Topics include: connoisseurship and collecting, aesthetic judgements, conservation and preservation, managing not-for-profits, art law and intellectual property and a wide variety of other topics. Usually offered every spring. *Prerequisite:* permission of Washington Semester program.

07.331 Visual Arts in the United States to 1890 (3) Developments in portraiture, landscape, and genre paintings from the early Colonial period to the end of the nineteenth century. Approaches to art historical analysis and relationships between American and European art. Emphasis on major artists such as Copley, Peale, Cole, Church, Eakins, Homer, Whistler, and Cassatt, and on the Hudson River School, Luminism, sentimental painting and quiltmaking, Tonalism, and Neoclassical and Beaux Arts sculpture. Meets with 07.631. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.332 Visual Arts in the United States: 1890 to 1945 (3) Ideas of "modernism" through both realistic and abstract developments. Approaches to art historical analysis and relationships between American, European, and Mexican art. Emphasis on the Ashcan School, the Stieglitz and Arensberg circles, Precisionism, the Harlem Renaissance, Regionalism and Social Realism, and the continuity of abstract interests. Focuses on major artists such as Sloan, Bellows, Dove, Hartley, Stieglitz, O'Keeffe, Demuth, Sheeler, Benton, Wood, Curry, Lozowick, Hopper, Shahn, Rivera, Kahlo, Orozco and Davis, as well as significant art critics and dealers. Meets with 07.632. Usually offered every spring. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.333 Visual Arts since 1945 (3) Addresses the art of the United States with some attention to European and Latin American artists. covers major artists and art movements such as Abstract Expressionism, Pop, Minimalism, Photorealism, Neo-Expressionism, and also performance art, feminist art, multiculturalism and protest art, and recent issues related to public art, arts funding, and censorship. Usually offered every third semester. *Prerequisite:* 07.101, 07.105, 07.210 or equivalent.

07.390 Independent Reading Course in Art History (1-6)

07.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

07.490 Independent Study Project in Art History (1-6)

07.491 Internship (3) *Prerequisite:* approval of adviser and department chair.

07.492 Internship in Museum Studies and the Arts (4) A two day a week internship at a Washington cultural organization. Academic requirements include a journal of the internship experience and an organizational case study of the organization. Possible sites of placements include private museums and galleries, performing arts centers, auction houses, the Smithsonian, arts magazines and newspapers, and managerial offices of not-for-profits. Usually offered every spring. *Prerequisite:* permission of Washington Semester program.

Graduate and Advanced Undergraduate Courses

07.500 Approaches to Art History (3) Reading, discussion, and written work based on selected topics such as style, iconography, semiotics, the art museum, and social, psychological and feminist approaches. Attention to critical interpretation and writing research papers. Usually offered once each year. *Prerequisite:* four art history courses or graduate standing. *Note:* Required for undergraduate art history majors and for graduate art history students.

07.501 Baroque Painting (3) Seventeenth century painting in Italy, Spain, France, the Netherlands, and England. Emphasis on Caravaggio, Rubens, Rembrandt, Vermeer, Poussin, and Velázquez. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.508 Painting: Rococo through Impressionism (3) Counter-Rococo currents in the late eighteenth century, including neoclassicism and proto-Romanticism, with a detailed study of David and Goya; French Romanticism in the art of Géricault and Delacroix; romantic landscape painting with emphasis on Turner, Constable, Friedrich, Corot, and the Barbizon School; the realism of Courbet; Manet and Degas; and Monet and the French Impressionists. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.510 Painting: Post-Impressionism to Expressionism (3) Reactions to Impressionism in the 1880s and 1890s in France and elsewhere in Europe. Emphasis on the art of Seurat and the Neo-Impressionists, Cézanne, Gauguin and the Symbolists, and Van Gogh. Also studied are Toulouse-Lautrec, Bonnard, Vuillard, Munch, Ensor, and Klimt. Art Nouveau and Expressionism are considered as Post-Impressionist phenomena, and their effect on the early work of Matisse and Picasso is assessed. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.511 Painting: Cubism through Surrealism (3) Analyzes the development of Cubism in the art of Picasso and Braque, Sonia and Robert Delaunay, and the Italian Futurists. Also studied are the non-objective styles of Kandinsky and Mondrian, and the Dada and Surrealist movements, with emphasis on Duchamp, Miró, and Picasso. American art since 1945 and its roots in traditions of European modernism are also considered. Usually offered once a year. *Prerequisite:* 07.101 or 07.105 or equivalent.

07.513 Renaissance Painting: Giotto to Bellini (3) Developments in Italian cities such as Florence, Siena and Venice in the fourteenth and fifteenth centuries, including the classical revival, narrative, the linear perspective, and the role of social and theoretical factors in the practice of art. Consideration of form and iconography in the art of major figures such as Giotto, Duccio, Masaccio, Piero della Francesca, Botticelli and Giovanni Bellini. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.514 Renaissance Painting: Leonardo to Caravaggio (3) Development of High Renaissance, Mannerist, and Baroque styles in sixteenth century Italy. Major artistic personalities, such as Leonardo da Vinci, Michelangelo, Raphael, Giorgione, and Titian are emphasized. Consideration of the rise of in the social status of artists, the emergence of the concept of artistic genius, and the growing phe-

nomena of women artists. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.520 Seminar in Art History (3) Reports and critical discussion of research papers on topic announced for semester. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* six art history courses or permission of instructor.

07.590 Independent Reading Course in Art History (1-6)**Graduate Courses**

Note: 600-level courses generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

07.602 Roman Art (3) Art and architecture of Rome from the Republic through the Empire. Meets with 07.302. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

07.608 Gothic Art (3) Architecture, painting, sculpture, manuscript illuminations, and stained glass from the twelfth to the fifteenth century in Europe. Meets with 07.308. Offered irregularly. *Prerequisite:* 07.100 or 07.105 or 07.303.

07.631 Visual Arts in the United States to 1890 (3) Developments in portraiture, landscape, and genre paintings from the early Colonial period to the end of the nineteenth century. Approaches to art historical analysis and relationships between American and European art. Emphasis on major artists such as Copley, Peale, Cole, Church, Eakins, Homer, Whistler, and Cassatt, and on the Hudson River School, Luminism, sentimental painting and quilting, Tonalism, and Neoclassical and Beaux Arts sculpture. Meets with 07.331. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.632 Visual Arts in the United States: 1890 to 1945 (3) Ideas of "modernism" through both realistic and abstract developments. Approaches to art historical analysis and relationships between American, European, and Mexican art. Emphasis on the Ashcan School, the Stieglitz and Arensberg circles, Precisionism, the Harlem Renaissance, Regionalism and Social Realism, and the continuity of abstract interests. Focuses on major artists such as Sloan, Bellows, Dove, Hartley, Stieglitz, O'Keefe, Demuth, Sheeler, Benton, Wood, Curry, Lozowick, Hopper, Shahn, Rivera, Kahlo, Orozco and Davis, as well as significant art critics and dealers. Meets with 07.332. Usually offered every spring. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.633 Visual Arts since 1945 (3) Addresses the art of the United States with some attention to European and Latin American artists. covers major artists and art movements such as Abstract Expressionism, Pop, Minimalism, Photorealism, Neo-Expressionism, and also performance art, feminist art, multiculturalism and protest art, and recent issues related to public art, arts funding, and censorship. Usually offered every third semester. *Prerequisite:* 07.101, 07.105, 07.210 or equivalent.

07.690 Independent Study Project in Art History (1-6)

07.691 Internship (3-6) *Prerequisite:* approval of adviser and department chair.

07.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

07.792 Research Seminar in Art History (3) Seminar topic is normally from one of the following areas: Renaissance art, Baroque and Rococo art, nineteenth-century art, twentieth-century art, American art and architecture, or from thematic or conceptual categories such as landscape or gender. Thesis-option papers written by M.A. candidates grow out of this course. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to M.A. candidates with permission of department chair required.

07.793 Directed Research in Art History (3) Topic arranged. Must be in a field listed under 07.792, but not in field covered in 07.792 that semester. Usually offered every term. *Prerequisite:* open only to M.A. candidates with 12 hours of graduate art history with a B average. Permission of department chair required.

Environmental Studies

Undergraduate Courses

08.102 Seminar in Environmental Issues (1) This seminar for beginning environmental studies majors introduces the student to the domain of environmental science as a discipline. The student is exposed to the scientific, economic, and social issues underlying major environmental problems. Different environmental topics are presented through faculty and guest speakers, readings, and discussions. Usually offered every term.

08.360 Environment and the Atmosphere (4) Description and analysis of the physical phenomena of the earth's atmosphere. Mechanics, fluid dynamics, and thermodynamics of the atmosphere, quantitative analysis of climatic fluctuations and their impact on ecological and economic systems. Climatic changes and climatic control: ozone depletion and greenhouse gases. Usually offered every spring. *Prerequisite:* 41.211 or 41.221.

08.375 Water Resources (3) A study of the availability, quality, dynamics, and cycles of water. Emphasizes the hydraulic cycle, movement of water in aquifers, floods and droughts, drainage basin analysis, and factors affecting water quality. Usually offered every fall. *Prerequisite:* 41.211 or 41.221.

08.390 Independent Reading Course in Environmental Studies (1-6)
09.392 Cooperative Education Field Experience (3-9) See Cooperative Education in this publication.

08.490 Independent Study Project in Environmental Studies (1-6)

08.492 Senior Capstone in Environmental Studies (3) An in-depth examination of two major sites of environmental concern and controversy from a variety of scientific and social perspectives. One site, such as the Yellowstone Ecosystem, will be of national importance; and one, such as the Anacostia River, will be of local importance. Usually offered every spring. *Prerequisite:* Senior standing. Environmental studies majors only.

Graduate and Advanced Undergraduate Courses

08.505 Energy (3) General overview of sources of energy and the energy problem with a strong focus on the relevant physical concepts. Topics include the definition of work, energy, and power, electricity and magnetism, chemical energy, nuclear energy, thermodynamics, and alternative energy sources. Usually offered alternate springs. *Prerequisite:* 08.580, 08.581, 42.514 and 42.515.

08.510 Climatology (3) Provides a detailed overview of the elements of climatology and the effects of pollution on the environment. Includes the radiation balance of the sun heated planet and how this energy shapes our climate, the physics of the atmosphere, atmospheric circulation, continental and marine climates, and the influences of topography, vegetation, forest and agriculture, air pollution, vehicular travel, urban construction and fossil fuel sources on the climate. Usually offered alternate falls. *Prerequisite:* 08.580, 08.581, 42.514 and 42.515.

08.520 Environmental Geophysics Description and analysis of the physical phenomena occurring on the earth. Earth as a dynamic planet; two major energy systems: hydrologic and tectonic systems. The relationship between geological changes and human activities: human activities change geological materials and processes on the earth, and natural processes and events affect society. Usually offered alternate falls. *Prerequisite:* 08.580, 08.581, 42.514 and 42.515.

08.572 Topics in Conservation Biology (3) Selected topics and current research in conservation biology, including habitat protection, ecosystem management, and captive breeding. May be repeated for credit, but not in the same term; topic must be different. *Prerequisite:* 08.580 and 08.581 or 09.423.

08.580 Environmental Science I: A Quantitative Approach (4) Estimation of environmental interactions through the formulation and analysis of simple, mathematical models enabling exploration of the consequences of a variety of assumptions and conditions. Topics include measurement, steady-state modes, and thermodynamics. Usually offered every fall. *Prerequisite:* one year of calculus and one year of laboratory science.

08.581 Environmental Science II: A Quantitative Approach (4) Estimation of environmental interactions through the formulation and analysis of simple mathematical models enabling exploration of the consequences of a variety of assumptions and conditions. Topics include non-steady box models, biogeochemistry, and climatology. Usually offered every spring. *Prerequisite:* 08.580.

08.582 Environmental Law (3) An overview of environmental law and environmental regulation for environment scientists and environmental policy analysts. Usually offered every spring. *Prerequisite:* 08.580 and 08.581 or permission of instructor.

08.590 Independent Reading Course in Environmental Studies (1-6)

Graduate Courses

08.681 Environmental Research Seminar and Practicum (3) An in-depth exploration of real world environmental problems from a variety of science and policy perspectives. Usually offered every spring. *Prerequisite:* 08.580 and 08.581.

08.690 Environmental Science Research (3) Independent research projects in environmental science. Usually offered every term.

08.691 Internship (1-6)

08.692 Cooperative Education Field Experience (3-6) See Cooperative Education in this publication.

Biology

Undergraduate Courses

09.100 Great Experiments in Biology 5:1 (3) The core of biology is the scientific experiment. This course, through lecture and laboratory, focuses on some classic experiments that introduce students to the modern study of biology and scientific method. Experiments include ones in the molecular basis of mutation, separation of complex biologically important molecules, and the construction of demographic tables. Usually offered every term. *Prerequisite:* completion of the University Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.15x Finite Mathematics as a prerequisite.

09.110 General Biology I 5:1 (4) An in-depth introduction and exploration of the study of life from atoms, molecules, and organelles to the cellular levels of organization. Emphasis on cell structure and function, energetics and metabolism, the gene, molecular genetics, and evolution. The laboratory component introduces the scientific method and experimentation through the study of microbes, plants and animals. Two and a half hours of lecture and two and a half hours of laboratory per week. Usually offered every term. *Prerequisite:* completion of the University Mathematics Requirement or concurrent enrollment in calculus with permission of the Department of Mathematics and Statistics.

09.200 Structure and Function of the Human Body 5:2 (3) The human organism as a paradigm for biological organization. The relationship between structure and function of organ systems. Disease processes in the context of normal physiology; social concerns from a biological perspective. Usually offered every term. *Prerequisite for General Education credit:* 09.100 or 09.110.

09.210 General Biology II 5:2 (4) An exploration of the origins of planet Earth and life. Emphasis on the organismal and higher levels of biological organization. The diversity of life through a survey of the five kingdoms and their phylogenetic relationships. The form and function of plants and animals. A consideration of the interrelationships between organisms and environment. The laboratory component explores the diversity of life at the organismal and higher levels of biological organization. Studies include form and function of plants and animals, dissection of the rat, and selected systems. Two and a half hours of lecture and two and a half hours of laboratory per week. Usually offered every term. *Prerequisite for all students, and for General Education credit:* 09.110.

09.220 The Case for Evolution 5:2 (3) What is evolution, how and why does it occur, and what does it tell us about the world around us? This course reviews the process of evolution from the initial organic soup that existed some 4 billion years ago to the relatively recent emergence of humans. It investigates why species change over time, both in their individual characteristics and their relative abundance, and examines how cultural and technological advances are influencing the current and future biological evolution of humans. Usually offered every term. *Prerequisite for General Education credit:* 09.110 or 09.100 or 57.115.

09.240 Oceanography 5:2 (3) An introduction to the study of the sea, including continental drift and plate tectonics, marine mineral resources, climatology and meteorology, currents, winds, sediments, beaches, waves, violent storms, tsunamis, tides, dunes, marshes,

swamps, reefs, productivity, upwelling, fisheries, dangerous marine animals, whales, sharks, shellfish, ocean dumping, and marine law. Usually offered every term. *Prerequisite for General Education credit:* 09.100 or 09.110 or 15.100 or 15.110 or 51.100 or 51.105 or 51.110.

09.250 Living in the Environment 5:2 (3) Focuses on key principles that govern how nature works and applies them to possible solutions to environmental problems. Major topics include energy flow and nutrient cycling through ecosystems, properties of natural communities, human population dynamics, resource conservation and management, the meaning of pollution, and environmental ethics. Usually offered every term. *Prerequisite:* previous experience with biology or chemistry and, for General Education credit, 09.100 or 09.110 or 15.100 or 15.110.

09.300 Cell Biology with Laboratory (4) Integrated study of cell structure and function in microorganisms, plants, and animals emphasizing their ultrastructure, biochemistry, and physiology. Lab consists of direct experience with the morphology and physiology of cells. Exercises include the use of PH meters, spectrophotometers, the ultracentrifuge, compound light, polarizing and phase contrast microscopes. Studies of enzyme kinetics, cell motility and respiration, chromosome structure, and fundamental histology are also conducted. Usually offered every fall. *Prerequisite:* 09.210, 15.110 and 15.210.

09.340 Marine Biology (3) Biology of marine organisms from a global perspective. Influence of geology, geography, currents, tides, waves, winds, salinity, and other parameters on the distribution of marine organisms. Plankton, nekton, infauna, epifauna, rocky shores, coral reefs, estuaries, beaches, and other environments. Marine ecology. Exercises using living and preserved marine invertebrates and fishes. Weekend field trips may be required. Usually offered alternate falls. *Prerequisite:* 09.210 or 09.240 and permission of the instructor.

09.356 Genetics with Laboratory (5) Basic genetic principles as revealed by classical and modern research methods. Patterns of gene transmission; gene structure, function, interactions, and mutation; chromosomal aberrations; nonchromosomal inheritance; biochemical genetics; and population genetics. Experiments illustrating basic genetic concepts, using materials from corn, drosophila, and humans. Usually offered every spring. *Prerequisite:* 09.300 or permission of instructor.

09.390 Independent Reading Course in Biology (1-6)

09.392 Cooperative Education Field Experience (3-9) See Cooperative Education in this publication.

09.404 Biology of Plants with Laboratory (4) An in-depth survey of plant structure and function, with emphasis on photosynthesis, development, physiology, and evolution. Usually offered every spring. *Prerequisite:* 09.210 and 15.210.

09.410 Invertebrate Zoology with Laboratory (4) Structure, evolution, and physiology of invertebrate animals, marine groups, Helminthes, and certain insects. The laboratory includes the identification of organisms within the various taxa. Sampling techniques for the collection of animals in fresh and salt water systems; field trips for collection and identification of habitats for insects and worms; record-keeping and an understanding of instrument and equipment maintenance. Usually offered alternate falls. *Prerequisite:* 09.110 and 09.210.

09.423 Introduction to Ecology (3) General principles of terrestrial and aquatic ecology, emphasizing deciduous forest and fresh water ecology. Usually offered every fall. *Prerequisite:* 09.210.

09.435 Vertebrate Physiology with Laboratory (5) Properties and physiology of vertebrate organ systems are explored. Laboratory illustrates selected physiological principles and encourages scientific inquiry. Usually offered alternate falls. *Prerequisite:* 09.300, 15.110, and 15.210.

09.440 Microbiology with Laboratory (4) Introductory survey of the protists (with emphasis on bacteria): their morphology, physiology, metabolism, growth, and destruction, and their role in human welfare as agents of disease and environmental change. Laboratory techniques of straining, cultivation, isolation, and identification of microbes, with emphasis on bacteria. Experiments on physiology, metabolism, and physical-chemical effects on growth and death of microbes. Usually offered every fall. *Prerequisite:* 09.110 and 15.310.

09.490 Independent Study Project in Biology (1-6)

09.491 Internship (1-4)

09.497 Senior Honors Thesis I (3) Student designed original laboratory or field research project. Usually offered every term. *Prerequisite:* Senior standing, honors program, permission of department.

09.498 Senior Honors Thesis II (3) Completion of student designed original laboratory or field research project. Results both written as scientific paper(s) and presented in departmental seminar. Usually offered every term. *Prerequisite:* 09.497.

09.499 Senior Seminar in Biology (3) This seminar, required of all senior biology majors, challenges students to examine unifying principles of biology. Different topics are presented in discussions, through faculty and guest speakers, readings, and individual student presentations. Usually offered every spring. *Prerequisite:* senior standing; biology majors only.

Graduate and Advanced Undergraduate Courses

09.500 Advanced General Microbiology (3) Structure and functional anatomy of prokaryotic cell walls and membranes; bacterial phototrophs, autotrophs, heterotrophs, their main pathways of degradative and synthetic metabolism; mechanisms of prokaryotic genetic exchange; and regulation of gene expression. Usually offered every spring. *Prerequisite:* 09.440.

09.501 Mechanisms of Pathogenesis (3) Infectious diseases of humans with emphasis on bacterial pathogens and the biology of the causative agents. Host-pathogens and the biology of causative agents. Host-parasite relationships, pathogenesis, immunology, and epidemiology are studied. Usually offered alternate springs. *Prerequisite:* 09.440 or graduate standing.

09.505 Introduction to Neurobiology (3) A general introduction to basic neuroanatomy and neurophysiology, with discussions of current topics in neuroscience. Intended for advanced undergraduates in biology or psychology pursuing a natural-science curriculum, and for graduate students in biology and psychology. Usually offered alternate falls. *Prerequisite:* one year college-level biology and permission of instructor. A course in anatomy and physiology is strongly recommended.

09.541 Cellular Immunology (3) Current concepts of the immune response at the cellular level. Structure and function of the T-lym-

phocyte, B-lymphocyte, macrophages, and ancillary cells. Theories of antibody diversity and the cellular basis of immunoglobulin formation. Cellular aspects of immunologic tolerance, hypersensitivity, surveillance, and clinical immunology. Review of the current literature. Usually offered every fall. *Prerequisite:* 09.300 or graduate standing.

09.550 Developmental Biology with Laboratory (4) The descriptive morphology, physiology, biochemistry, genetics, and molecular biology of the developmental processes in a variety of organisms. Includes laboratory study of prepared slides and living material. Usually offered alternate falls. *Prerequisite:* 09.300 or equivalent, 15.320 or equivalent, and senior or graduate standing.

09.552 Field and Laboratory Methods in Water Quality Analysis (4) Biological and chemical methods for evaluating water quality in fresh water lakes and streams. EPA-approved protocols for rapid bioassessments; taxonomic identifications of freshwater invertebrates and plants. Chemical and physical examination of water using currently accepted water quality tests. Three hours of lecture per week; plus three Saturdays and one Sunday for field collecting, times to be arranged. Usually offered alternate falls. *Prerequisite:* 09.110, 09.210, 15.110, 15.210.

09.555 Techniques of Molecular Biology (3) Training in the basic manipulation of DNA, RNA, and protein. Practical experience in several different analytical and preparative procedures. Usually offered every fall. *Prerequisite:* permission of instructor. *Note:* not open to students who have taken 09.661 Techniques of Molecular Biology.

09.560 Techniques in Cell Biology (3) Basic techniques of cell and tissue culture. Aseptic technique, primary culture, culture and characterization lines, cell growth kinetics, and physical methods of cell separation. Usually offered every fall. *Prerequisite:* 09.300 or equivalent and senior or graduate standing.

09.565 Field Ecology (3) Training in the techniques of ecological research. The course integrates sampling problems in the field, statistical analysis of the data, and interpretation of the results in terms of major ecological questions. Usually offered every fall. *Prerequisite:* 09.423 or equivalent, 42.202 or equivalent, and senior or graduate standing.

09.566 Evolutionary Mechanisms (3) The genetic composition of populations and the theory and principles of natural selection. Species formation and differentiation in Darwinian and neo-Darwinian theory. Evolution above the species level and current evolutionary concepts (such as sociobiology and catastrophe theory) are also considered. Usually offered alternate falls. *Prerequisite:* 09.300, 09.356, or 09.550.

09.567 Evolutionary Ecology (3) The ecology of organisms is made clear in the context of evolution and the study of evolution is greatly enriched by an understanding of the ecological circumstances in which evolution occurs. This course focuses on the interface between the two and the mathematical models involved. Usually offered alternate springs. *Prerequisite:* 09.423 and 41.221.

09.577 Special Topics in Developmental Biology (1-4) Current research interests such as nuclear-cytoplasmic interactions, cell surface in development, developmental aspects of carcinogenesis, and gene expression in development. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* 09.550 or equivalent and permission of instructor.

09.579 Topics in Evolutionary Biology (1-4) Current research topics, depending on the focus of the instructor, such as Molecular Evolution, Biochemical Approaches to Evolution, Mathematical Modeling of Evolutionary Processes, and the Interaction of Genetics, Developmental Biology, Ecology and Evolutionary Biology. May be repeated for credit, but not within the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of instructor.

09.583 Molecular Biology (3) An in-depth study of gene structure and expression. Concepts are described and illustrated further with examples and discussion of classic and current papers from the scientific literature. Topics covered include DNA, RNA and protein synthesis, regulation of gene expression in prokaryotes and eukaryotes, nucleic acid structure, RNA processing, DNA binding proteins and transcription factors, oncogenes, transformation, mutations, DNA repair and recombination. Usually offered alternate falls. *Prerequisite:* 09.300; 09.356 and 15.560 are recommended. *Note:* not open to students who have taken 09.683 Molecular Biology.

09.590 Independent Reading Course in Biology (1-6)

Graduate Courses

09.660 Mammalian Physiology and Pathology (3) The way systems function and the way each contributes to the function of the body as a whole. Discussion and identification of the toxic agents that interfere with the normal function of the body. Offered irregularly.

09.679 Aquatic Toxicology (3-4) The principles and applications of physiological toxicology, toxicological methodology and data, bioaccumulation of aquatic contaminants, and the fate of chemicals in the aquatic environment. Students conduct standardized bio-assays and evaluate the toxicity of selected compounds to selected trophic levels. Usually offered alternate springs. *Prerequisite:* graduate standing and permission of instructor.

09.690 Independent Study Project in Biology (1-6)

09.691 Internship (1-6)

09.692 Cooperative Education Field Experience (3-6) See Cooperative Education in this publication.

09.697 Research Methodology in Biology (3) Basic scientific research skills necessary for experimental design, data analysis, literature critiques, and disseminating results. Specific topics include techniques for literature research, scientific writing including thesis proposal preparation, the use of statistical packages, and the preparation of an oral presentation for a thesis defense, seminar, or professional meeting. Required of all graduate biology students. Usually offered every fall. *Prerequisite:* graduate standing in biology.

09.700 Graduate Seminar (1) May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* graduate standing in biology.

09.790 Biology Literature Research (1-6) Students conduct a literature search on some aspect of the biological sciences under the direction of their guidance committee, culminating in the submission of a review paper. Satisfies part of the degree requirements for the M.A. degree in biology. Usually offered every term. *Prerequisite:* M.A. candidate in biology.

09.797 Master's Thesis Research (1-6) *Prerequisite:* M.S. candidate in biology.

Business Administration: Management

Undergraduate Courses

10.252 Business, Government and Society (3) The history and evolution of business in the United States and in the world. The relationship between government and business, including government regulation of business and business influence on public policy. The relationship between business and society, business responsibilities and challenges in a global environment, and ethical issues associated with business decision making. Emphasis on written assignments. Usually offered every term. *Prerequisite:* sophomore standing.

10.352 Introduction to Management Information Systems (3) Information as an organizational resource, decision-making frameworks, transaction processing systems, decision support systems, external information systems, office automation, competitive information systems, accounting and financial applications, marketing applications, production applications, needs assessment, system design and implementation, organizational impacts, and social issues. A technology update is provided in hardware and software basics, database-management systems, and telecommunications. Usually offered every term. *Prerequisite:* 10.353, 14.240 and 64.280, which may be taken concurrently, and upper-division standing.

10.353 Principles of Organizational Theory, Behavior and Management (3) Current management theories, research, and practice. Course content represents a synthesis of behavioral sciences providing a broad framework for management. Topics include organizational goals and responsibilities, models, decision theory, planning control, organization, motivation, leadership, group behavior, conflict, and organizational change. Usually offered every term. *Prerequisite:* upper-division standing.

10.355 Production/Operations Management (3) Fundamental concepts of operations management. Introduction to operations research and to management science and its interdisciplinary aspects. Basic elements of decision theory, inventory models, linear programming (L/P), production models, simulation, waiting lines, etc. Usually offered every term. *Prerequisite:* upper-division standing and all Kogod College requirements in statistics.

10.381 Managing Human Resources (3) Understanding the principles and operations of personnel administration and industrial-relations systems in organizations by analyzing and applying theoretical concepts to functional situations. Usually offered every term. *Prerequisite:* upper-division standing.

10.382 Employee Involvement and Labor Policy (3) An analysis of the concepts and principles of union-management relationships through an emphasis of the historical, legal, economic, social, and behavioral dynamics of union and management interactions in various settings. Usually offered every fall. *Prerequisite:* upper-division standing.

10.384 Managing Performance (3) The course focuses on the function and design of performance appraisal systems as tools of professional development, coaching and counseling, merit-compensation determinations, and goal implementation. Students examine the assets and liabilities of alternative methods of performance-appraisal systems. Applications are oriented to the role of the personnel manager. Usually offered every spring. *Prerequisite:* 10.381 and upper-division standing.

10.386 Entrepreneurship (3) The entrepreneurship philosophy, attitudes, and characteristics. Entrepreneurship and new venture success and failure factors. Identifying and evaluating entrepreneurial opportunities. Developing a new venture business plan. Successfully managing the new venture. Applications cover creation and management of stand-alone ventures and of those developed within corporations. Usually offered every spring. *Prerequisite:* 11.300, 10.353, and 13.365 and upper-division standing.

10.387 Management and Leadership Development (3) Develops the management leadership and organization perspectives essential to the success of small to large businesses and individual managers. Development of management and organization leadership, creativity and innovation are stressed. Enhancing the manager's communication and negotiation skills is a critical dimension to developing effective managers. Developing an understanding of management philosophy and values and their practical impacts on managing a business is stressed. *Prerequisite:* 10.353.

10.388 Small Business Management (3) The numerous challenges associated with the successful management of a small business enterprise. Concepts, tools, and techniques of successful management of a small business cover a broad range of service and manufacturing industries. The management application of the computer in a small business situation is highlighted. Usually offered every fall. *Prerequisite:* 10.353.

10.391 Internship in Management (1-6) Provides students with the opportunity to blend practical business work experience with academic study. The academic workload varies depending on the internship credit to be earned. Usually offered every term. *Prerequisite:* Upper-division standing and 9 credit hours in business courses, including any relevant business core courses specified by the department. Authorization of instructor and department chair required.

10.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this catalog. *Prerequisite:* upper-division standing and nine credit hours in business including any relevant business core courses specified by the department. Authorization of instructor and dean or department chair required.

10.452 Business Responsibility in American Society (3) The conceptual and historical framework in which the American firm performs as an institution of the community. The relationship between business responsibility and public policy. Emphasis on student participation and cases. Usually offered every term. *Prerequisite:* upper-division standing.

10.454 Managing Information for Business Decision Making (3) Use of computer-based modeling systems and computer graphics to support business decisions. Qualitative and quantitative aspects of business decision making, business decision support systems, decision insight systems and expert systems. Experience with business software application packages. Usually offered every fall. *Prerequisite:* upper-division standing.

10.458 Business Policy and Strategy (3) Integration of knowledge in functional areas of business and simulation of management experiences. Various methods of simulating a management environment are employed, including case studies and computerized management problems. Usually offered every term. *Prerequisite:* senior standing and completion of all junior-level courses.

10.481 Managing Compensation Systems (3) Surveys and analyzes basic concepts of compensation administration in private sector

organizations. The foundation for wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on compensation programs. Usually offered every fall. *Prerequisite:* upper-division standing.

10.482 Managing Employee Benefits Programs (3) Analyzes management requirements for legally required benefits such as OASDI, health insurance, unemployment insurance, and worker compensation. Provides in-depth examination of social insurance programs, ERISA, and pension fund management. Usually offered every spring. *Prerequisite:* upper-division standing.

10.490 Independent Study Project in Management (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Graduate and Advanced Undergraduate Courses

10.585 Managing Diversity: Recruiting and Selecting the Workforce (3) An analysis of labor-force demographics, study of the Civil Rights Act and amendments, and study of other discrimination-oriented legislation. The course focuses on providing equal employment opportunities in organizations, how to establish affirmative action programs, and how to evaluate the effectiveness of EEO in organizations. Offered irregularly. *Prerequisite:* upper-division standing for undergraduates.

Graduate Courses

10.601 Project Business Management (3) Business decision-making theories and practice appropriate to information systems development and reengineering projects involving large-scale, complex systems. Tools to facilitate monitoring and status of external and internal project activities, decision modeling, and evaluation of risks, opportunities, and alternative courses of action and reaction to unplanned events. *Prerequisite:* 64.511 or equivalent, as approved by Computer Science and Information Systems Department.

10.671 Strategic Human Resources Management (3) Functional issues and current developments in administering the personnel resources of contemporary private-sector organizations.

10.681 Seminar in Compensation Systems (3) Analysis of concepts and practices of compensation administration in organizations. Wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on the wage and salary administrator and on compensation programs.

10.682 Seminar in Managing Pensions and Benefits (3) Analyzes the Social Security Act and its offsets as applied to private, single, and multiemployer plans, ERISA, OASDI, health insurance, unemployment insurance, and worker compensation. Provides skills in pension-fund management.

10.684 Seminar in Performance Management (3) Reviews performance-appraisal systems as tools of the management process. The various performance-appraisal techniques, role of rater and rated, and the organizations are examined during this comprehensive review. Current research in performance appraisal is emphasized and discussed.

10.686 Management-Union Relations (3) Explores the nature of the collective bargaining system in the United States and the parties having a vital interest in the system. The course deals primarily with formal organizations designed to represent the interests of employers, workers, and the general public. It presents historical background, current practices, and future directions of unions; management strategies in dealing with unions; and the collective bargaining process.

10.755 Strategic Management (3) Unites the various majors and disciplines taught in the Kogod College of Business Administration. Conceptual skills for integration of previously learned aspects of corporations. A framework for analyzing organizational problems. Strategic management concepts, research, and theories as they apply to organizational analysis. Analytical and decision-making skills are developed through the use of simulations and case studies. Usually offered every term. *Prerequisite:* completion of all graduate core course requirements; must be taken in the students' last semester.

Business Administration: Marketing

Undergraduate Courses

11.300 Principles of Marketing (3) Introduction to marketing decision making in business and nonprofit organizations. Particular attention is devoted to analysis of customer needs; segmenting markets; and developing product, promotion, pricing, and distribution strategies. Relationships between consumers, business, and government are explored. Usually offered every term. *Prerequisite:* 19.100, 19.200, and upper-division standing.

11.301 Consumer Behavior (3) Study of marketing, psychology, sociology, and cultural anthropology to determine motivations for product purchases. A multimedia approach is used to illustrate the use of behavioral science theory to create new products and promotional campaigns. Students learn to analyze consumer decisions for products or services and to determine effectiveness of information provided by government and charitable organizations. Usually offered every term. *Prerequisite:* 11.300 and upper-division standing.

11.302 Marketing Research (3) Study of research tools used to aid marketing decision making. Considers definition of research problems, selection of projects, and analysis of data. Execution of a consumer survey is a major component of the course. Students use the computer to analyze research data. Usually offered every term. *Prerequisite:* 42.202.

11.391 Internship in Marketing (1-6) Provides students with the opportunity to blend practical business work experience with academic study. The academic workload varies depending on the internship credit to be earned. Usually offered every term. *Prerequisite:* Upper-division standing and 9 credit hours in business courses, including any relevant business core courses specified by the department. Authorization of instructor and department chair required.

11.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this catalog. *Prerequisite:* 11.300, upper-division standing and nine credit hours in business including any relevant business core courses specified by the department.

11.402 Marketing Strategy (3) Analysis of current marketing management issues. Students develop a marketing plan for an outside organization, analyze case studies, and participate in computer simulation exercises. Usually offered every term. *Prerequisite:* 11.302, which may be taken concurrently, and senior standing.

11.411 Advertising and Marketing Communications Management (3) The role of advertising, public relations, personal selling, and sales promotion in business. Emphasis on how promotional campaigns are planned, created, and budgeted, and how these campaigns can inform buyers, change attitudes, and increase sales. Usually offered every term. *Prerequisite:* 11.300.

11.412 Advertising and Promotion Campaigns (3) Development of an advertising campaign for a client. Includes formulation of advertising strategy, media planning, media buying, creative execution, and campaign evaluation. Usually offered every term. *Prerequisite:* 11.300 and 11.411.

11.421 Sales Management (3) An introduction to professional sales force management. Designed to develop skills in planning the sales program, organizing the selling effort, and recruiting, training, and motivating the sales force. Usually offered every spring. *Prerequisite:* 11.300.

11.436 Retailing Management (3) Creation and management of retailing institutions. Topics include buying, merchandising, pricing, promotion, inventory management, customer service, and location decisions. Field trips to major retail establishments, guest speakers, and development of a plan for a new retail store are the major components of the course. Usually offered every fall. *Prerequisite:* 11.300.

11.490 Independent Study Project in Marketing (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Business Administration: International Business

Undergraduate Courses

12.200 The Global Marketplace 3:2 (3) An exploration of the global business environment, with a focus on the cultural dimensions involved in conducting business across national boundaries, as well as the role that business plays in both the international economy and in the preservation of finite world resources. Usually offered every term. *Prerequisite for General Education credit:* 33.105 or 33.110 or 33.140.

12.300 Fundamentals of International Business (3) An introductory course that studies the nature and scope of international trade and investment, international institutions, the international monetary system and exchange markets, and some of the major issues involved in the functional aspects of international business. Usually offered every term. *Prerequisite:* upper-division standing.

12.301 International Marketing (3) The concepts and practices of marketing across national borders and the adaptations to the marketing program required because of the different needs, environmental constraints, and forms of competition in foreign markets. Usually offered every term. *Prerequisite:* 11.300 and 12.300.

12.302 International Finance (3) The structure and nature of the international monetary system and the operation of exchange markets, foreign exchange exposure, and foreign capital markets. The cost of capital in an international context is also studied, as well as some of the major issues in international accounting, taxation, and banking. Usually offered every term. *Prerequisite:* 12.300 and 13.365.

12.391 Internship in International Business (1-6) Provides students with the opportunity to blend practical business work experience with academic study. The academic workload varies depending on the internship credit to be earned. Usually offered every term. *Prerequisite:* Upper-division standing and 9 credit hours in business courses, including any relevant business core courses specified by the department. Authorization of instructor and department chair required.

12.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* upper division standing and nine credit hours in business including any relevant business core courses specified by the department.

12.401 Cultural Environment of International Business (3) The cultural factors affecting international business operations and their influence on the principal business functions of finance, marketing, procurement, production, public and external relations, and research and development. Usually offered every term. *Prerequisite:* 12.300.

12.404 Multinational Accounting Issues (3) Major differences in selected national accounting systems, comparative accounting practices, currency translation and consolidation of financial statements, problems with inflationary/deflationary currencies, transfer pricing, international financial disclosure, and multinational taxation issues. Usually offered every fall. *Prerequisite:* 14.241 and 12.300.

12.408 Export-Import Management (3) The management of the marketing processes of export/import operations, particularly for small and medium-size firms. Topics include the decisions involved with export/import activities, market selection strategies, distributor and supplier selection considerations, financing operations, supporting documentation, and the general management of export/import marketing variables. Usually offered every term. *Prerequisite:* 12.301.

12.420 International Business and Trade Seminar I (4) Provides an in-depth introduction to the nature and workings of international business and trade through lectures and seminars with decision-makers in Washington, D.C. Also focuses on the functional operations of international business including marketing, HRM, finance, accounting, and international law. Usually offered every term. *Prerequisite:* Admission to the Washington Semester Program.

12.421 International Business and Trade Seminar II (4) Continuation of 12.420. *Prerequisite:* Admission to the Washington Semester Program.

12.422 International Business and Trade Seminar Research Project (4) For students in the program who wish to conduct substantive research. Students are encouraged to utilize the resources of the city through interviews, surveys, and examination of primary and secondary sources from government and private sector organizations. Usually offered every term. *Prerequisite:* Admission to the Washington Semester Program.

12.423 International Business and Trade Internship (4) An opportunity to intern with one of many national and multinational agencies and organizations while participating in this program. The work component is supplemented by class discussions and assignments. Usually offered every term. *Prerequisite:* Admission to the Washington Semester Program.

12.490 Independent Study Project in International Business (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Graduate and Advanced Undergraduate Courses

12.507 International Human Resource Management (3) Focuses on the components of international human resource management and how they are used by multinational corporations. Students examine international compensation systems, international recruiting policies, international training and development programs, international labor relations issues, performance appraisal in the international environ-

ment, cross-cultural considerations, and safety and termination considerations. Usually offered every spring. *Prerequisite:* 12.300.

Graduate Course

12.701 Seminar in International Business (3) Discussion of student research efforts on the conduct of international business in Western Europe, Latin America and the Caribbean, the Middle East and Africa, the Far East, or the Socialist countries. The research concentrates on the different business practices that are required because of the different cultural, economic, legal, and political environment of the region. Usually offered every term. *Prerequisite:* to be taken during the last semester of study for International Business majors.

Business Administration: Finance and Real Estate

Undergraduate Courses

13.200 Personal Finance and Financial Institutions 4:2 (3) Provides the background for making personal financial decisions within a social and institutional context and developing future financial plans. Shows how to set financial goals, devise strategies to attain them, and understand the tradeoffs inherent in the decision-making process. Topics include cash flow control, banking, credit, taxes, financing houses and automobiles, insurance, investments, and estate planning. Usually offered every term. *Prerequisite for General Education credit:* 19.100. *Note:* not open to students who have taken 13.212 Personal Finance.

13.312 Survey of Investments (3) This survey course in investments is for non-business majors. The course describes the risk-return characteristics of common and preferred stocks, bonds, mutual funds, and other investment alternatives and develops a framework for analyzing investments and their usefulness in forming investment portfolios. No math beyond basic algebra is required. Elementary concepts of accounting, economics, and financial markets necessary to understanding investment analysis are developed in the course. Usually offered every spring. *Note:* not open to students who have taken 13.469.

13.365 Corporate Finance (3) Introduction to business finance, including global aspects; acquisition and use of short-term funds and long-term capital; overview of money and capital markets; management of asset, liability, and capital accounts; financial analysis and time value of money; cash, operation, and long-range budgeting; leasing; corporate securities; dividend policy; and cost of capital. Usually offered every term. *Prerequisite:* 14.241, 42.202 and upper-division standing.

13.373 Real Estate Principles and Transactions (3) Principles and practices of listing real property, agreement of sale, and the transfer of title or ownership and interests. Drawing documents, contracts, deeds, leases, financing and other instruments. Private and public property rights, liens, taxes, assessments, and other claims on real estate. Mathematical problems in investment real estate. Approved for the real estate salesperson examination. Usually offered once a year.

13.391 Internship in Finance (1-6) Provides students with the opportunity to blend practical business work experience with academic study. The academic workload varies depending on the internship credit to be earned. Usually offered every term. *Prerequisite:* Upper-division standing and 9 credit hours in business courses, including

any relevant business core courses specified by the department. Authorization of instructor and department chair required.

13.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* upper-division standing and nine credit hours in business including any relevant business core courses specified by the department. Authorization of instructor and dean or department chair required.

13.464 Financial Markets and Institutions (3) The history, purposes, functions, and organizations of the short-term money market and long-term capital market. An integrated view of the participating institutions and the markets in which they operate, their investment constraints, and resulting portfolios. Usually offered every term. *Prerequisite:* 13.365.

13.465 Derivative Securities (3) Analysis of debt and equity-based futures and options contracts and their underlying cash market instruments. Characteristics of derivative instruments markets. Pricing of derivative instruments. Speculative, hedging, and arbitrage uses of derivative instruments. Risk-return tradeoffs in speculation and hedging. Limited coverage of currency futures and options and exotic derivative instruments. Usually offered every term. *Prerequisite:* 13.365.

13.468 Advanced Financial Management (3) Investment, financing, and dividend-policy decisions of the financial manager. Case studies and problems are some of the tools used to enable the student to make and see the effects of financial decisions. Usually offered every term. *Prerequisite:* 13.365.

13.469 Investment Analysis (3) Investment objectives. Methods of appraising corporate equity, debt, and other securities. Portfolio theory and management, technical analysis, random walk theory, and the role of institutional investors. Case studies and computer simulation are used. Usually offered every term. *Prerequisite:* 13.365.

13.470 Senior Seminar in Finance (3) Capstone seminar dealing with current issues and recent developments in corporate financial management, investments and financial institutions. It integrates topics covered in previous courses in finance and real estate and extends into new topic areas as appropriate. The course provides students with extensive literature review and the opportunity to conduct formal research in finance. Usually offered every term. *Prerequisite:* Senior standing with at least 9 credit hours of finance/real estate in addition to 13.365 or permission of department chair.

13.474 Real Estate Finance and Economics (3) Impact of the national economy on real estate; application of macroeconomics (GNP, consumer spending, inflation, interest rates, and other data) to housing and commercial property; mortgage market analysis, including ARMs and creative financing, secondary mortgage markets, MBSS, CMOs, and other new developments in real estate finance. Usually offered every term. *Prerequisite:* 13.365.

13.490 Independent Study Project in Finance and Real Estate (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Graduate and Advanced Undergraduate Courses

13.510 Real Estate Law (3) The nature and scope of this course is to give students a basic understanding and knowledge of the history and philosophy of real estate law, its concepts and principles, and the relationships and functions of real estate law. Specific concepts and areas of real property law are covered. Usually offered every spring and summer.

Business Administration: Accounting and Taxation

Undergraduate Courses

14.201 Legal Issues in Business (3) Examines individual, business, and legal relationships. Includes legal concepts, philosophy, and functions, and federal and state court systems. Survey of contracts, sales, agency, legal forms of business, and regulation of business. Usually offered every term. *Prerequisite:* sophomore standing.

14.202 Advanced Business Law (3) Functions, form, and content of commercial paper. Law of real and personal property. Legal bibliography. Legal requirements of business. Case research. Usually offered every term. *Prerequisite:* 14.201.

14.240 Principles of Financial Accounting (3) An introduction to the principles and concepts underlying financial statements. Course includes an introduction to the accounting profession, control, concepts, business entities, and all elements of basic financial statements. Usually offered every term. *Prerequisite:* sophomore standing.

14.241 Principles of Managerial Accounting (3) An introduction to the principles and concepts underlying managerial accounting. Course includes an introduction to management accounting information and cost accounting. Usually offered every term. *Prerequisite:* 14.240.

14.340 Intermediate Financial Accounting I (3) Begins a two-course sequence providing an in-depth study of principles, concepts, and elements associated with financial statements. This includes financial statement analysis, income measurement, valuation of assets and equities, and generally accepted accounting principles. Usually offered every term. *Prerequisite:* Completion of 14.240 and 14.241 with a C or higher; and upper-division standing.

14.341 Intermediate Financial Accounting II (3) Continuation of 14.340. Focus on accounting for long-term liabilities and stockholder's equity, cash flow analysis, and international financial statements. Usually offered every term. *Prerequisite:* 14.340 and upper-division standing.

14.345 Cost Accounting (3) Uses of accounting data for planning, control, and decision making. Topics include budgets and standard costs, cost concepts, techniques and behavior. Usually offered every term. *Prerequisite:* 14.241 and upper-division standing.

14.350 Introduction to Accounting Information Systems (3) Discusses the nature and communication of accounting information. Topics include transaction processing, databases, documentation, system development, and internal control issues. Usually offered every term. *Prerequisite:* 14.241.

14.391 Internship in Accounting (1-6) Provides students with the opportunity to blend practical business work experience with academic study. The academic workload varies depending on the internship credit to be earned. Usually offered every term. *Prerequisite:* Upper-division standing and 9 credit hours in business courses, including any relevant business core courses specified by the department. Authorization of instructor and department chair required.

14.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* upper-division standing and twelve credit hours in business including any relevant business core courses specified by the department. Permission of department chair.

14.443 Taxation I (3) Introduction to federal income taxation of individuals. Usually offered every term. *Prerequisite:* 14.241 and upper-division standing.

14.444 Taxation II (3) Selected topics in federal income tax for individuals, partnerships, and corporations. Specialized areas such as estates and trusts. Usually offered every term. *Prerequisite:* 14.443.

14.490 Independent Study Project in Accounting (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Graduate and Advanced Undergraduate Courses

14.547 Advanced Financial Accounting (3) Theory and practices of accounting for partnerships, business combinations, and consolidated financial statements. Advanced topics in financial accounting. Usually offered every term. *Prerequisite:* 14.341 or 14.624 or permission of department chair.

14.549 Auditing (3) A study of auditing theory, generally accepted auditing standards, audit procedures, audit reports, and the responsibilities and ethics of the auditing profession. Topics include risk, evidential matter and audit tests, internal controls, sampling, audit testing, subsequent events, professional liability, reporting statutory provisions, compilation and review services, and reporting under government auditing standards. *Prerequisite:* Senior or graduate standing and 14.340 or 14.621 and 14.622.

14.560 Governmental and Not-for-Profit Accounting (3) This course covers accounting and financial reporting concepts and standards applicable to local, state, and federal governments, and non-profit entities such as colleges and universities, health care entities, and voluntary health and welfare organizations. Emphasizes the nature of governmental organizations and their financial characteristics and differences in reporting standards from the private sector. Financial management and audit issues particular to non-profits are also discussed. *Prerequisite:* 18.607 and 18.608 or 14.340 or permission of the department chair.

Graduate Courses

14.602 Legal Environment of Professional Accounting (3) A study of the legal environment of business with emphasis on aspects of business law of particular importance to professional accountants. Ethical, social, and political considerations as they affect business organizations and the practice of public accountancy are also emphasized. Usually offered every spring.

14.604 Federal Income Taxation (3) A study of federal income tax laws relating to individuals, partnerships, and corporations. Detailed consideration to basic income tax concepts applicable to individuals, property and business transactions, corporations (including S Corporations) and their shareholders, partnerships and limited liability companies. *Prerequisite:* 18.607 or permission of the department chair.

14.621 Financial Accounting and Reporting (1.5) Conceptual framework, methodological approaches and problematic applications of financial accounting theory. Emphasis on the relationship between generally accepted accounting principles and the preparation of financial statements. Consideration of the organization of the accounting profession, its ethics and responsibilities, and the impact of governmental and private sector organizations on current accounting issues. *Prerequisite:* 18.608.

14.622 Asset Valuation and Reporting (1.5) In-depth analysis of financial accounting principles and problems applicable to asset valuation and reporting. Topics include cash and receivable transactions, inventory valuation, depreciation alternatives, intangible assets, accounting for investments, and implications for income determination. *Prerequisite:* 18.607.

14.623 Financial Accounting for Debt and Equity (1.5) In-depth analysis of debt and equity transactions and reporting issues. Topics include current and long-term liabilities, stockholders' equity, related income determination issues and earnings per share disclosures. *Prerequisite:* 18.607.

14.624 Special Topics in Financial Accounting (1.5) Application of financial accounting theory to complex special problems. Topics include revenue recognition dilemmas, accounting for income taxes, pensions and post-retirement benefits, leases, accounting changes, and cash flow reporting. *Prerequisite:* 18.607.

14.625 Managerial Accounting: Cost Behavior and Determination (1.5) Study of the concepts, principles and techniques of cost and management accounting as used in complex organizations. Special emphasis on estimating cost behavior, CVP analysis, allocating common costs, government contracting and determining the cost of manufactured goods. *Prerequisite:* 18.608.

14.626 Accounting for Management Planning and Control (1.5) Systems and techniques for determining and controlling costs for management planning and decision-making. Topics include profit planning and budgeting, short-term decision-making, capital budgets, inventory control, job and process costing, standard costing, responsibility accounting and performance evaluation. *Prerequisite:* 18.608.

14.630 Legislative and Judicial Foundations of Income Tax (3) Legislative and judicial concepts common to all areas of income taxation. Emphasis on analysis of court decisions to trace the development of judicial doctrines. Subject areas: substance over form, characteristics of income, dispositions of assets, capital gains and losses, tax credits, limitations on business expenses and losses, tax accounting principles. Usually offered every term. *Prerequisite:* admission to the graduate tax program or permission of program director.

14.631 Tax Research and Procedure (3) Thorough analysis of techniques for performing sophisticated tax research: looseleaf services, treatises, IRS sources, court decisions. Analysis of tax procedure: IRS organization; audit procedures; assessment, collection, and refund; limitations; penalties; responsibility in tax practice. Emphasis on practical applications. Usually offered every term. *Prerequisite:* admission to the graduate tax program or permission of program director.

14.632 Estate and Gift Tax (3) Detailed analysis of the federal estate and gift taxes and an overview of the income taxation of estates and trusts (Subchapter J). Usually offered every fall. *Prerequisite:* 14.630 or 14.631 or permission of program director.

14.633 Corporation Income Taxation I (3) Income taxation of corporations and their shareholders: organization, capital structure, dividends and other nonliquidating distributions, redemptions, liquidations, taxation of S corporations. Usually offered every fall. *Prerequisite:* 14.630 or permission of program director.

14.651 Accounting Information Systems: Transaction Processing (1.5) The study and development of accounting information systems related to manual and automated transaction processing. Topics include mainframe and microcomputer systems, specialized application software, data modeling, databases, and vertical market accounting information systems. *Prerequisite:* 18.608.

14.652 Accounting Information Systems: Control and Special Topics (1.5) A study of internal control issues related to automated systems, EDP auditing, computer crime, and AIS design and documentation. Special topics include decision support systems, expert systems, and advanced technologies. *Prerequisite:* 18.608.

14.671 Accounting in a Multinational Environment (1.5) In depth study of the external and internal accounting and reporting problems associated with multinational business entities. Topics include accounting diversity and capital market effects, international financial statement analysis, management control of global operations, performance evaluation systems, international transfer pricing and emerging issues. *Prerequisite:* 18.608.

14.672 International Accounting: Technical Issues (1.5) Contemporary accounting problems in a multinational environment. Topics include comparative accounting systems, accounting for foreign currency transactions and translation, harmonization of international accounting and auditing standards, and multinational taxation issues. *Prerequisite:* 18.608.

14.690 Independent Study Project in Accounting (1-6) *Prerequisite:* authorization of instructor, department chair, and associate dean.

14.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* permission of department chair and instructor and completion of Common Body of Knowledge (CBK) courses.

14.725 Advanced Managerial Accounting I (1.5) Integration of managerial aspects of accounting, business, and the managerial functions of decision making, planning and control. Consideration of both quantitative and behavioral aspects. Offered irregularly. *Prerequisite:* 18.608 or equivalent, or permission of instructor.

14.726 Advanced Managerial Accounting II (1.5) Continuation of 14.725. Integration of managerial aspects of accounting, business, and the managerial functions of decision making, planning and control. Consideration of both quantitative and behavioral aspects. Offered irregularly. *Prerequisite:* 14.725 or its equivalent, or permission of instructor.

14.740 Corporation Income Taxation II (3) A continuation of 14.633: accumulated earnings and personal holding-company penalty taxes, collapsible corporations, corporate reorganizations, carryover of corporate tax attributes, multiple corporations, and consolidated returns. Usually offered every spring and summer. *Prerequisite:* 14.630 and 14.633.

14.741 State and Local Taxation (3) Examination of the constitutional and practical constraints on taxing jurisdiction of state and local governments. Topics: conformity with federal law, apportionment of income, multistate and multinational corporation problems, transaction taxes, property taxes, death and gift taxes. Detailed analysis of the Uniform Division of Income for Tax Purposes Act (UDITPA). Offered irregularly. *Prerequisite:* admission to the graduate tax program or permission of program director.

14.742 Special Tax Topics (1-3) Selected specialized tax topics or analysis of current tax legislation. Topics might include taxation of

banks, insurance companies, security transactions, tax exempt organizations, cooperatives, or natural resources. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of program director.

14.743 International Taxation (3) U.S. tax law related to investment by U.S. persons overseas and foreign persons in the United States. Specific topics include the foreign tax credit, Subpart F, PFIC's, FSC's transfer pricing, FIRPTA, section 911, and the role of tax treaties. Usually offered every summer. *Prerequisite:* 14.630 and 14.633.

14.745 Employee Benefit Tax Planning (3) Analysis of income tax aspects of compensation benefits for employees at all levels and for self-employed persons. Detailed consideration of qualified pension and profit-sharing plans, individual retirement accounts, Keogh plans, statutory and nonstatutory stock options, and other fringe benefits (life insurance, medical plans, etc.). Offered irregularly. *Prerequisite:* 14.630.

14.746 Taxation of Real Estate Transactions (3) Income tax aspects of acquiring, operating, and disposing of investment and personal real estate. Detailed consideration of deductions (including ACRS), conventional and creative financing techniques, foreclosures and repossessions, subdivision, sale/leaseback transactions, tax-deferred exchanges, involuntary conversions, sale of a principal residence, and special problems of agricultural property. Usually offered every summer. *Prerequisite:* 14.630 or permission of program director.

14.747 Partnership Taxation (3) Income tax aspects of transfers to a partnership, distributions, withdrawal or death of a partner, dissolution, sales and exchanges of partnership interests, special partnership allocations, use of the partnership as a vehicle for investment syndication. Usually offered every term. *Prerequisite:* 14.630.

14.750 Tax Policy (3) Study of the economic, social, ethical, and political forces in the development of tax policy. Specifically addressed are alternative approaches to taxing income, the practical political environment of enacting tax legislation, and the international influences on U.S. tax policy. Usually offered every spring. *Prerequisite:* student should be in the final semester of the graduate tax program or have permission of program director.

14.751 Seminar in Business Tax Planning (3) Use of case methodology to integrate tax considerations with accounting, economic, managerial, and nontax legal considerations for planning corporate transactions. Topics: organization of a close corporation, dividends and other corporate distributions, corporate combinations, corporate liquidations, corporate divisions. Usually offered every fall. *Prerequisite:* 14.633 or permission of program director.

14.752 Seminar in Family Financial Planning (3) Use of case methodology to integrate income, estate, and gift tax implications with nontax legal considerations in establishing a financial plan within the family unit. Included is detailed consideration of income taxation of estate and trusts (Subchapter J). Topics: estate-planning legal mechanisms, charitable and family gifts, private foundations, disposal of business interests. Usually offered every spring. *Prerequisite:* 14.632.

14.760 Advanced Auditing (1.5) Advanced study of contemporary auditing theory, standards, and practices. Topics include standard setting process, legal and ethical responsibilities, assessment of audit risk, statistical techniques, EDP auditing, regulatory provisions, reporting requirements, operational auditing and current developments in professional audit practice. Offered irregularly. *Prerequisite:* 14.653 and 14.654.

14.764 Contemporary Issues in Auditing and Professional Practice (1.5) The contemporary environment of the accounting profession and the analysis of emerging accounting issues. Review of current literature and research related to significant accounting problems and the evolution of professional practice. Case methodology. Offered irregularly. *Prerequisite:* 14.623.

14.770 Current Topics in Accounting (1.5) Topics include: forensic accounting, public policy issues in accounting, special technology and systems issues related to accounting, regulatory reporting and other topics relevant to professional accounting practice. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of accounting department.

14.780 Seminar in Accounting Theory (3) Development of accounting theory. Analysis of current accounting problems and review of relevant literature. Usually offered every spring. *Prerequisite:* 14.547 or permission of department chair.

14.797 Master's Thesis Seminar (3-6) Subject matter of the paper and scope of research are determined by the student in consultation with the appropriate graduate accounting faculty. Usually offered every term. *Prerequisite:* permission of department chair.

Chemistry

Undergraduate Courses

15.100 The Molecular World 5:1 (3) A general introduction to chemistry leading to biochemistry and the chemistry of life. Study of the composition of materials, their structures and properties, related energy conversions, and the use of molecular genetic information. Questions of scientific inquiry and the scientific method in cultural and historical contexts are considered. Usually offered every term. *Prerequisite:* completion of the University Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.15x Finite Mathematics as a prerequisite.

15.110 General Chemistry I 5:1 (4) A general introduction to chemistry: the scientific method; atomic structure; stoichiometry and chemical reactions; heat changes; electronic structure of atoms; molecular geometry; and liquid, solid, gas, and solution chemistry. This course provides a sound basis in concepts, vocabulary, and analytical problem solving. Related laboratory work covers: the scientific method, measurements using scientific apparatuses, collection and manipulation of data, error analysis, and illustration of scientific principles. Two and a half hours of lecture and three hours of laboratory work each week. Usually offered every term. *Prerequisite:* completion of the University Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.15x Finite Mathematics as a prerequisite.

15.200 Human Biochemistry and Health 5:2 (3) Biochemical principles of health and fitness examined by considering the structures, functions, and energetics of the molecules found in human beings. Description of molecular and practical aspects of personal health and nutrition with emphasis on weight control, fitness, and optimal athletic performance. Discussion of drugs, the biotechnological revolution, and genetic engineering as they apply to exercise and health. Three hours of lecture and one hour of discussion per week. Occasional laboratory sessions are required for Honors students. Usually offered every spring. *Prerequisite for General Education credit:* 15.100 or 15.110 or 09.100 or 09.110 or 57.115.

15.210 General Chemistry II 5:2 (4) Topics covered: oxidation-reduction reactions, reaction rates, equilibrium and its relation to thermodynamics, acid-base chemistry and its practical applications, electrochemistry, molecular bonding theory, and nuclear chemistry. Related laboratory work covers: titration techniques, spectroscopic analysis, kinetics experiments, and introduction to qualitative and quantitative analysis. Two and a half hours of lecture and three hours of laboratory work each week. Usually offered every spring. *Prerequisite for all students, and for General Education credit:* 15.110.

15.220 Environmental Resources and Energy 5:2 (3) General discussion of the chemistry of our environment, including description of the ideal unpolluted environment and a historic view of pollution. Classes and interactions of pollutants with the environment are described. Emphasis is placed on understanding the chemistry of pollutants and how they affect our quality of life. Usually offered every term. *Prerequisite for General Education credit:* 15.100 or 15.110 or 09.100 or 09.110 or 51.100 or 51.105.

15.230 Earth Sciences 5:2 (3) Combines geology, geophysics, and geochemistry in describing the evolution of our planet, the deep structure of the earth, its plate tectonic evolution, and interaction of the crust with the hydrosphere, biosphere, and atmosphere. Three hours of lecture each week with occasional laboratory demonstrations and field trips. Usually offered every term. *Prerequisite for General Education credit:* 15.100 or 15.110 or 51.100 or 51.105 or 51.110.

15.310 Organic Chemistry I (3) Systematic treatment of hydrocarbons, alkyl halides, alcohols, carbonyl compounds, acids, and their derivatives. Ionic and free radical reactions and stereochemistry. Three hours of lecture. Usually offered every fall. *Prerequisite:* 15.210. Must be taken concurrently with 15.312.

15.312 Organic Chemistry I Laboratory (1) Laboratory theory and practice in synthesis, separation, and purification of organic compounds. Introduction to modern separation techniques including thin-layer, column, and gas chromatography. Usually offered every fall. *Prerequisite:* concurrent registration in 15.310.

15.320 Organic Chemistry II (3) Aliphatic and aromatic compounds and electrophilic substitution; spectral methods; and nitrogen compounds and their derivatives. Introduction to polyfunctional compounds including amino acids, carbohydrates, lipids, and nucleic acids. Three hours of lecture. Usually offered every spring. *Prerequisite:* 15.310. Must be taken concurrently with 15.322.

15.322 Organic Chemistry II Laboratory (1) Multistep syntheses. Synthesis of polyfunctional compounds. Introduction to infrared and nuclear magnetic resonance spectra. Qualitative organic analysis. Four hours of laboratory. Usually offered every spring. *Prerequisite:* must be taken concurrently with 15.320.

15.350 Quantitative Analysis (3) Theory of acid-base, complexation, precipitation, and redox equilibria. Volumetric and gravimetric analyses. Separations. Statistical analysis of data. Separation and analysis of complex mixtures. Usually offered alternate falls. *Prerequisite:* 15.210 and 41.221. Must be taken concurrently with 15.351.

15.351 Quantitative Analysis Laboratory (2) Practice in classical analytical methods of analysis, including precipitation titrations and gravimetric analysis; neutralization titrations and potentiometric methods; oxidation, reduction, and complex formation titrations; and electrochemical methods. Computer-assisted statistical analysis of

data. Six hours of laboratory. Usually offered alternate falls. *Prerequisite:* must be taken concurrently with 15.350.

15.390 Independent Reading Course in Chemistry (1-6)

15.398 Honors: Junior Year (1-3) Independent chemical laboratory research project under the direction of a faculty adviser. Progress reports may be required at the discretion of the adviser. Usually offered every fall. *Prerequisite:* 15.320/15.322, and permission of department chair and university honors director.

15.399 Honors: Junior Year (1-3) See description of 15.398. Usually offered every spring and summer. *Prerequisite:* 15.320/15.322, concurrent registration in 15.507, a grade of B or higher in 15.398 if taken, and permission of department chair and university honors director.

15.401 Geology (3) Study of the interior and exterior of the earth and how it works. Focus is on the processes that shape the earth's surface: weathering, mass-wasting, water, wind, glaciers, and plate tectonics. The evolution of the earth including the impact of earthquakes, rock deformation, and landscape evolution. The impact of the need for energy and mineral resources is also considered. Usually offered every third semester. *Prerequisite:* 15.110.

15.410 Physical Chemistry I (3) Macroscopic theories of the behavior of molecules: laws of thermodynamics, heat pumps and entropy; phase and chemical equilibria; solutions; noncovalent interactions; transport phenomena. Usually offered alternate falls. *Prerequisite:* 15.210, and prior or concurrent registration in 41.223. Must be taken concurrently with 15.411.

15.411 Physical Chemistry I Laboratory (1) Experiments in thermodynamics to accompany 15.410. Six hours of laboratory. Usually offered alternate falls. *Prerequisite:* must be taken concurrently with 15.410.

15.420 Physical Chemistry II (3) Microscopic theories of the behavior of molecules: rates and mechanisms of chemical reactions; quantum mechanics of model systems; atomic and molecular structure; spectroscopy; statistical thermodynamics. Usually offered alternate springs. *Prerequisite:* 15.410. Must be taken concurrently with 15.421.

15.421 Physical Chemistry II Laboratory (2) Experiments in chemical kinetics and spectroscopy to accompany 15.420. Six hours of laboratory. Usually offered alternate springs. *Prerequisite:* must be taken concurrently with 15.420.

15.460 Instrumental Analysis (3) Theory of optical and electroanalytical methods, including spectrophotometry, fluorometry, spectrography, and flame and atomic spectroscopy, ion-selective electrodes, polarography; amperometry; mass spectrometry; chromatography; electronics; radiometric techniques; isotope dilution; and neutron activation analysis. Analysis of errors. Usually offered alternate springs. *Prerequisite:* 15.350 and 41.222; must be taken concurrently with 15.461.

15.461 Instrumental Analysis Laboratory (2) Practice in modern methods of instrumental analysis including atomic absorption and emission spectroscopy; gas and high pressure liquid chromatography; nuclear magnetic resonance, ultraviolet, visible, infrared, and fluorescence spectroscopy; and measurements with ion selective electrodes. Six hours of laboratory. Usually offered alternate springs. *Prerequisite:* must be taken concurrently with 15.460.

15.490 Independent Study Project in Chemistry (1-6)

15.491 Internship (1-6)

15.498 Honors: Senior Year (1-3) See description of 15.398. Usually offered every fall. *Prerequisite:* 15.420/15.421, 15.460/15.461, a grade of B or higher in 15.399 if taken, and permission of department chair and university honors director.

15.499 Honors: Senior Year (1-3) See description of 15.398. A senior thesis must be written and the results of research presented at a departmental seminar. Usually offered every spring. *Prerequisite:* a grade of B or higher in 15.498, prior or concurrent registration in 15.507, and permission of department chair and university honors director.

Graduate and Advanced Undergraduate Courses

15.501 Principles of Analytical Chemistry (3) For beginning graduate students. Spectroscopic and chromatographic techniques, electrochemistry, and data treatment. Two hours of lecture and three hours of laboratory. Usually offered alternate springs. *Prerequisite:* 15.350.

15.506 Human Physiological Chemistry (3) Cell structure, structures and functions of amino acids, peptides, and proteins. Characteristics of blood, hemoglobin, and enzymes. Central metabolism and bioenergetics. Neurotransmission and muscle contraction. Metabolism of carbohydrates, fatty acids, lipids, and amino acids. Hormonal regulation. Experiments coordinated with the lectures. Two hours of lecture and two hours of laboratory. Usually offered every spring. *Prerequisite:* 15.210 or permission of the Chair of the Department of Health and Fitness. *Note:* May not be used to fulfill requirements in either chemistry or biology degree programs.

15.507 Chemical Literature (1) Abstracts, journals, patents, and other sources. Practice in conducting library and on-line computer literature searches. One hour of lecture and occasional laboratory sessions. Usually offered every spring. *Prerequisite:* 15.320/15.322.

15.520 Advanced Organic Chemistry I (3) Principles of physical organic chemistry. Bonding and conformational analysis; nucleophilic substitution at carbon; elimination and addition reactions; carbene chemistry; and cycloaddition reactions. Usually offered every fall. *Prerequisite:* 15.420.

15.521 Advanced Organic Chemistry II (3) Synthetic and mechanistic aspects of the chemistry of carbonyl compounds. Acylations, alkylations, and other condensations; oxidation and reduction reactions. Application of orbital symmetry correlations to organic reactions. Usually offered every spring. *Prerequisite:* 15.520.

15.522 Interpretation of Spectra (3) Practical interpretation of ultraviolet, infrared, nuclear magnetic resonance, and mass spectra for organic chemists and biochemists. Elucidation of structures and kinetic processes. Usually offered every fall. *Prerequisite:* 15.420.

15.546 Thermodynamics and Statistical Mechanics (3) Macroscopic and microscopic theories of the properties and interactions of molecules: laws of thermodynamics; phase transitions; solutions; colligative properties; ionic solutions and polyelectrolytes; statistical thermodynamics; quantum statistics. Usually offered alternate years. *Prerequisite:* 15.420.

15.550 Advanced Inorganic Chemistry (3) Electronic structure of atoms, periodic trends, bonding and structure of covalent compounds, electronegativity, bonding and structure of coordination complexes, acids and bases, organometallic chemistry, and bioinorganic chemistry. Usually offered every fall. *Prerequisite:* 15.420.

15.551 Topics in Inorganic Chemistry (3) Molecular symmetry, transition metal spectra, mechanisms of inorganic reactions, boron chemistry, organometallic chemistry, inorganic polymers, bioinorganic chemistry, and energy conversion. Usually offered alternate springs. *Prerequisite:* 15.550.

15.552 Inorganic Chemistry Laboratory (1) This course provides an introduction to classical inorganic chemical syntheses, purification methods and analyses. Techniques utilized in the identification of compounds include Fourier transform infrared, ultra violet and visible, ^1H nuclear magnetic resonance and mass spectroscopies and magnetic susceptibility measurements. Some synthetic procedures utilize an inert atmosphere approach. Usually offered alternate falls. *Prerequisite:* 15.550, may be taken concurrently.

15.560 Biochemistry I (3) Water and hydrogen bonding. Structures and functions of amino acids, peptides, proteins, and nucleic acids. Introduction to molecular genetics and genetic engineering. Hemoglobin, allostery, and sickle-cell anemia. Enzyme kinetics and mechanisms. Enzyme evolution and regulation. Protein activation in digestion, blood clotting, and the immune response. Membrane structures and functions. Metabolic principles, bioenergetics, and glycolysis. Three hours of lecture and one hour of seminar. Usually offered every fall. *Prerequisite:* 15.320.

15.561 Biochemistry II (3) Mitochondrial compartmentation and functions, Krebs cycle, electron transport, and oxidative phosphorylation. Mitochondrial pumps and membrane transport. Metabolic pathways and hormonal regulation. Further consideration of DNA organization, replication, mutation, repair, expression, and movement. Viruses. Immunoglobulin structure and diversity. Biotechnological methods. Three hours of lecture and one hour of seminar. Usually offered every spring. *Prerequisite:* 15.560.

15.564 Chemistry of Carbohydrates (3) Elucidation of chemical structures, conformations, and reactions of monosaccharides. When pertinent, the biological activity of a given carbohydrate is considered. Usually offered alternate springs. *Prerequisite:* 15.320 and 15.322.

15.565 Physical Biochemistry (3) Use of physical models to describe the behavior of biological macromolecules. Topics include: ligand and effector binding; allosteric interactions; protein folding; helix-coil transitions; RNA structure analysis; supercoiled DNA; absorbance, fluorescence and scattering techniques; hydrodynamic techniques, NMR and x-ray crystallography. Usually offered alternate springs. *Prerequisite:* 15.420 and 15.560.

15.570 Computers in Chemistry (3) Introduction to applications of electronic computers in chemistry. Practice in using IBM and Macintosh personal computers. Applications include statistical analysis of data, simulation and modeling. Algorithms, flow charts, and programming in Pascal. Communication between mainframe and microcomputers. Use of on-line and optical disk chemical information data bases. Three hours of lecture with occasional laboratory sessions. Usually offered every summer. *Prerequisite:* 15.320 and 64.280.

15.590 Independent Reading Course in Chemistry (1-6)

Graduate Courses

15.600 Special Topics in Chemical Literature (1-3) Based upon articles from recent issues of chemical journals with special sections in the chemical subdisciplines. This course is intended to foster discrimination in selecting papers, an analytical approach to reading, the ability to retain the critical elements presented and an understanding

of the advanced concepts that provide the underpinnings for the papers. These abilities should be of particular value in preparing for the comprehensive examinations. May be repeated for credit within the same term; topic may be the same. Usually offered every term.

15.601 Research Seminar in Chemistry (1-3) Various topics in advanced chemistry with contents selected according to need and the chemical subdisciplines. Concentrates on research design and implementation. May be repeated for credit within the same term; topic may be the same. Usually offered every term.

15.610 Advanced Analytical Chemistry (3) Modern techniques, including ion-selective electrodes, fluorescence and phosphorescence analysis, atomic absorption spectrometry, far infrared spectroscopy, nuclear magnetic resonance, microwave spectroscopy, nuclear quadrupole spectroscopy, electron and photoelectron spectroscopy, neutron activation analysis, and the use of computers. Usually offered alternate falls. *Prerequisite:* 15.460.

15.618 Special Topics in Analytical Chemistry (3) Presentation of current research activity. May be repeated for credit within the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* consult department.

15.628 Special Topics in Organic Chemistry (3) Woodward-Hoffman Orbital Symmetry Correlation Rules and their application; organic photochemistry; heterocyclic chemistry; applications of NMR to the study of rates of dynamic processes. May be repeated for credit within the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* consult department.

15.642 Chemical Kinetics (3) Phenomenological and theoretical descriptions of the rates of chemical reactions; simple and complex mechanisms; fast reactions; flow systems; pharmacokinetics; catalysis; chain reactions and explosions; autocatalytic and oscillating reactions; chaos. Usually offered alternate years. *Prerequisite:* 15.420.

15.661 Enzyme Kinetics and Mechanisms (3) Computer-assisted modeling of protein structures. Chemical catalysis. Enzyme kinetics and computer-assisted determination of kinetic parameters. Approximation, distortion, covalent catalysis, general acid-general base catalysis, hydrogen bonding, and hydrophobic and electrostatic effects in enzyme mechanisms. Physical studies of enzymes. Isotope effects, pH effects, chemical modification, affinity labeling, and transition-state analog inhibition in studies taken from the current literature. Offered irregularly. *Prerequisite:* 15.561.

15.670 Principles of Pharmacology (3) Basic principles including absorption, distribution, biotransformation and excretion of drugs. Structure-activity relationships and physical and chemical properties of drugs are discussed. Comparative pharmacology, and therapeutic and toxicological drug effects also are included. Usually offered alternate springs. *Prerequisite:* 15.550, 15.560, and a course in physiology or permission of instructor.

15.671 Principles of Toxicology (3) Basic principles of how chemicals, drugs, and natural products alter biological systems. Mechanisms and conditions under which harmful effects may occur are emphasized. Also considered are biological and chemical factors that influence toxicity; routes of administration; experimental design; special tests; statistical analysis of data; extrapolation of animal data to man; and regulatory aspects of toxicology. Usually offered alternate falls. *Prerequisite:* 15.320.

15.680 Chemical Mutagens and Carcinogens (3) Metabolic activation and deactivation, and mechanisms of action of polycyclic aromatic hydrocarbons, aromatic amines, azo and N-nitroso compounds, nitro aromatics, natural products, and alkylating agents. Short-term testing methods. Usually offered alternate springs. *Prerequisite:* 15.561; 15.671 is recommended.

15.681 Bioinorganic Chemistry (3) Metals in biochemistry, with emphasis on metal toxicity and metabolism of toxicants. Natural abundance, uptake, and storage. Diseases of deficiency and excess. Iron and copper in oxygen carriers and redox enzymes. Cobalt and group transfers. Zinc metalloenzymes. Nitrogenase. Group Ia and IIa metals. Toxic metals. Usually offered alternate falls. *Prerequisite:* 15.320. 15.550 is recommended.

15.682 Toxicological Testing (3) A survey of the principal methods used to assess the toxicity of chemicals, covering acute and chronic tests using animals and short-term *in vitro* alternatives that are being developed. The scientific basis of and limitations of each test are examined. Genetic toxicology is a special focus. Usually offered alternate springs. *Prerequisite:* 15.671 or permission of instructor.

15.690 Independent Study Project in Chemistry (1-6)

15.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

15.700 Seminar in Chemistry (1) Selected topics. Preparation and presentation of a paper of professional quality. Usually offered every fall and spring. *Prerequisite:* 15.507 and twelve graduate credit hours of chemistry.

15.751 Research Seminar in Toxicology (3) Students deliver oral and written reports on various topics in contemporary toxicology, covering biological and chemical mechanisms of action of toxicants, testing methodology, and societal issues. Satisfies part of the requirements for the M.S. in Toxicology. May be repeated for credit, but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* 15.561, 15.670, and 15.671.

15.797 Master's Thesis Research (1-6)

15.799 Doctoral Dissertation Research (1-20)

Communication

Note: The program track or tracks of each undergraduate professional course are noted in the course descriptions below: (BJ) Broadcast Journalism, (PJ) Print Journalism, (PC) Public Communication, (VM) Visual Media. Communication and Media Studies courses are identified by (MS). Communication and Media Studies courses approved for print and broadcast journalism majors are identified by (JMS).

Undergraduate Courses

17.105 Visual Literacy 1:1 (3) Introduces students to ways of understanding visual images in a variety of contexts: art, media (including film, photography, television, graphic design), and drawing. Students learn about aesthetics as well as the production aspects of visual images; they discover intuitive dimensions of seeing as well as the major influence of culture on visual symbols and constructs. Usually offered every term.

17.110 National Forensics Institute Academic Advantage (1-2) A summer residential program in speech or debate for high school students. In addition to their work in the forensics institute, students undertake an additional, individualized course of study designed and

supervised by institute faculty and coaches. In speech, students may pursue original oratory, Lincoln-Douglas debate, extemporaneous speaking, dramatic interpretation, humorous interpretation, and student congress. In debate, students prepare for the following academic year's national high school debate resolution. Usually offered every summer. *Prerequisite:* limited to students in the National Forensics Institute; permission of director of Summer Programs required.

17.200 Writing for Mass Communication (3) (BJ, PJ, PC, VM) A course stressing basic writing techniques for informing a mass audience. Intensive practice in writing for mass media. Required of all school majors. Usually offered every term. *Prerequisite:* 23.100, 23.101 or equivalent courses, typing skill, and permission of the school.

17.204 Public Relations (3) (PC) The nature and practice of public relations in organizations. Employee relations, media relations, community relations, and relations with other publics. Usually offered every term. *Prerequisite:* permission of the school. *Note:* not open to students who have taken 17.436 Public Relations.

17.205 Understanding Mass Media 4:2 (3) Building on students' individual and collective experiences of mass media (print, film, radio, and television), this course analyzes American media institutions: their development, fundamental purpose, and structure; the economic and political controls they face; and their effect on us as individuals. Usually offered every term. *Prerequisite for General Education credit:* 53.110 or 57.105 or 65.100.

17.210 Presentational Speaking (3) Analysis, organization, and delivery of effective speeches. Strategies of audience analysis, researching topics, overcoming stage fright, managing visual aids, refining persuasive message development, mastering nonverbal communication, with video-taped feedback for a variety of speeches. Usually offered every spring. *Prerequisite:* open only to University Honors students; permission of University Honors Director required. *Note:* not open to students who have taken 17.310 Public Speaking.

17.270 How the News Media Shape History 2:2 (3) The impact that the print and broadcast news media have had on America. The role and value of a free press, always powerful and usually responsible. Topics range from how radical writers helped start the American Revolution to how today's reporters influence contemporary political events. Usually offered every term. *Prerequisite for General Education credit:* 29.100 or 53.105.

17.275 Dissident Media: Voices from the Underground 4:2 (3) The evolution and impact of alternative media as forces for social change. How dissident groups have used non-establishment media such as suffragist and Socialist journals, African-American and gay presses, counterculture tabloids, Christian-right newsletters, and the "zines" of the 1990s to organize and bring about reform. This course also examines the power of communication, the interplay between media and society, and the complex role of politically dissident media in American history. Usually offered every term. *Prerequisite for General Education credit:* 53.110 or 65.100 or 73.100 or 76.125.

17.280 Contemporary Media in a Global Society 3:2 (3) An exploration of the relationship between international communication and foreign policy, with an emphasis on the traditions, practices, legal aspects, government controls, and attitudes in various countries and their impact on freedom of thought and expression. Usually offered every fall. *Prerequisite for General Education credit:* 33.105 or 53.130.

17.300 Interpersonal Communication (3) Principles of interpersonal communication: communication models and systems; the role of perception in communication; verbal and nonverbal message elements; and communication barriers, breakdowns, and methods of improvement. Classroom exercises in interviewing techniques, small-group problem solving, and public speaking. Usually offered every term. *Prerequisite:* core courses and permission of the school. For Public Communication majors, this course is a prerequisite to 17.310, 17.472, and 17.475. *Note:* not open to students who have taken 17.410.

17.310 Public Speaking (3) (PC) Principles of effective speaking. Practice in preparing and presenting several types of public address. Usually offered every term. *Prerequisite:* permission of the school; 17.300 is required for public communication majors and recommended for all students. *Note:* not open to students who have taken 17.210 Presentational Speaking.

17.320 Reporting (3) (BJ, PJ) Fundamentals of news gathering, news writing, and news judgment for all media; study of news sources, fieldwork, research, and interview techniques. Usually offered every term. *Prerequisite:* 17.200, 17.205, sophomore standing, and permission of the school.

17.322 Editorial Policies and Methods (3) (PJ) Instruction and practice in editing. Copy editing, wire editing, and editorial judgment, headline writing, and newspaper design and layout. Usually offered every term. *Prerequisite:* core courses and permission of the school.

17.323 Computer Techniques for Communication Studies (3) Combines training in computer skills necessary for modern communication professionals with readings and discussions geared toward critical analysis of new media technologies. Course covers use of Internet, basic computer-assisted research and reporting skills, computer-based communication, basic use of databases and spreadsheets, and the changing role of media in society. Usually offered every term. *Prerequisite:* core courses and permission of the school.

17.325 Feature Article Writing (3) (PJ) Study of feature articles for newspapers, syndicates, magazines, and specialized publications; practice in research, interviewing, and writing, marketing and publication of articles. Usually offered every term. *Prerequisite:* core courses, 17.320 and permission of the school.

17.327 The Presidency, the Press, and Public Opinion (3) The evolution of the presidency in an age of advanced media technology. How contemporary presidents are compelled to be effective communicators and skillful masters of the "bully pulpit" to mobilize public opinion and provide moral leadership. The relationship between the presidency and the press. The impact of their mutual, yet uniquely adversarial dependency on popular attitudes, and the affect on the national political environment and international affairs. Usually offered every fall.

17.333 Fundamentals of TV and VTR (3) (BJ) Procedures and techniques used in producing television news in the field and in the studio. Students are introduced to basics of lighting, audio techniques, video graphics, camera operations, field production, and videotape editing. Laboratory. Usually offered every term. *Prerequisite:* core courses and permission of the school.

17.385 Broadcast Journalism I (3) (BJ) Writing, reporting, and editing news for radio. Production of minidocumentary. Laboratory. Usually offered every term. *Prerequisite:* 17.320 and permission of the school.

17.390 Independent Reading Course in Communication (1-6)

17.392 Cooperative Education Field Experience (3) See description under Cooperative Education in this publication.

17.401 Legal Aspects of Communication (3) (MS) Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law required. Usually offered every term.

17.425 Advanced Reporting (3) (PJ) Students are introduced to the various reporting techniques involved in writing about local and federal governmental operations. Students write local and federal government news stories. Usually offered every term. *Prerequisite:* 17.320 and permission of the school.

17.428 Broadcast Journalism II (3) (BJ) Writing, reporting, editing, and producing news for television. Production of television field reports and newscasts on closed circuit television. Laboratory. Usually offered every term. *Prerequisite:* 17.333, 17.385 and concurrent registration in 17.432, and permission of the school.

17.430 Basic Photography (3) (VM, PJ, PC) Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Meets with 17.630. Usually offered every term. *Prerequisite:* sophomore standing, 17.105 or 05.100, and permission of the school.

17.431 Basic Visual Media Production (3) (VM) Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and small format video that are critiqued in class, students learn the principles and procedures of sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.631. Usually offered every term. *Prerequisite:* junior standing, 17.105, and permission of the school.

17.432 Television Field Reporting (3) (BJ) Advanced television news production. Students write, tape, edit, and produce field reports and a television minidocumentary. Usually offered every term. *Prerequisite:* 17.333, 17.385, concurrent registration in 17.428, and permission of the school.

17.433 Broadcast Delivery (3) (BJ) Concentrated analysis of and training in the delivery of news on radio and television. All facets of broadcast news styles and performance are examined and developed. Obstacles to effective communication of news by the voice are identified, and remedies are attempted. Meets with 17.633. Usually offered every spring. *Prerequisite:* permission of the school.

17.434 Location Film and Video Production (3) (VM) Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting, refinements of continuity, location sound recording, and visual design. Usually offered every term. *Prerequisite:* 17.430, 17.431, and permission of the school.

17.435 Introduction to Studio Television (3) (VM) A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Usually offered every term. *Prerequisite:* 17.105 and permission of school.

17.437 Public Relations Media (3) (PC) Principles and practice in the major forms of media used in public relations: news releases, broadcast publicity and public service announcements, planning and publicity for special events, feature stories, house publications, and institutional advertising. Usually offered every term. *Prerequisite:* core courses and permission of the school.

17.446 Public Relations Case Studies (3) (PC) Case studies and typical public relations problems in industry, labor, education, government, social welfare, and trade associations. Planning and preparation of communications materials for various media; application of public relations techniques. Usually offered every term. *Prerequisite:* 17.204 and permission of the school.

17.450, 17.451 Washington Journalism Semester Seminar I (4), II (4) 17.450 and 17.451 are taken together, and explore journalism as it exists and is practiced in Washington, D.C. The seminar studies the people, institutions, and issues of Washington journalism with weekly guest speakers, field trips, readings, review sessions, and lectures. Usually offered every fall and spring. *Prerequisite:* admission to Washington Journalism Semester. *Note:* not open to American University communication majors.

17.452 Washington Journalism Semester Internship (4) Professional communication work in an off-campus organization, providing the student with experience not available in the curriculum. Usually offered every fall and spring. *Prerequisite:* admission to Washington Journalism Semester. *Note:* not open to American University communication majors.

17.456 Film Production and Direction (3) (VM) Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Meets with 17.656. Usually offered every term. *Prerequisite:* 17.434, 17.482, and permission of the school.

17.464 Directing for Camera (3) (VM) For students who wish to develop their skills in studio production. The course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with 17.664. Usually offered every fall. *Prerequisite:* 17.434, 17.482, and permission of the school.

17.470 Organizational Communication (3) (PC) Communication practices in complex organizations. Formal and informal communication networks and problems associated with each. Forms of communication used in organizations. Field research project in a Washington-area organization. Offered irregularly. *Prerequisite:* permission of the school.

17.472 Nonverbal Communication (3) (PC) Current research on the influence of biorhythms, artifacts, facial expressions, gestures, posture, space, time, and touch on human interaction. Opportunities for analysis and application of learned principles through in-class exercises, simulations, videotaped sessions, and off-campus field research. Usually offered every fall. *Prerequisite:* permission of the school; 17.300 is required for public communication majors and recommended for all students.

17.475 Group Communication Management (3) (PC) Current research on leadership, problem solving, decision making, deviant behavior, communication networks, and discussion techniques in small groups. Opportunities for application in videotaped sessions, role-playing exercises, and field research. Recommended in junior year. Usually offered every term. *Prerequisite:* permission of the

school; 17.300 is required for public communication majors and recommended for all students.

17.480 Public Communication Research (3) (PC) Application of survey research methods to selected problems in public relations. Preparation of a research project for a Washington-area client. Usually offered every term. *Prerequisite:* senior standing and permission of the school.

17.482 Writing for Visual Media (3) (VM) Techniques of writing scripts for film and television productions. Students write treatments and screenplays for television, proposals for public service announcements, commercials and scripts for nontheatrical film and video productions. Usually offered every term. *Prerequisite:* 17.200, 17.431, and permission of the school.

17.486 Video Production and Direction (3) (VM) An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with 17.686. Usually offered every term. *Prerequisite:* 17.434, 17.482 and permission of the school.

17.490 Independent Study Project in Communication (1-6)

17.491 Senior Internship (3) (BJ, PJ, PC, VM) Professional communication work in an off-campus organization appropriate to the student's school program, providing the student with experience not available in the curriculum. Usually offered every term. *Prerequisite:* senior standing, recommendation of adviser, and approval of the internship director; a grade point average of 2.50 is required in both the major and overall. Authorization of instructor and dean or department chair required.

Graduate and Advanced Undergraduate Courses

17.502 In-Depth Journalism (3) (MS) (JMS) Introduces students to the history, purposes, power, and responsibilities of investigative journalism. Also introduces students to the specialized reporting and interviewing techniques of investigative reporting and requires students to develop these skills while participating in a group investigative journalism project. Usually offered every spring. *Prerequisite:* 17.320 and permission of school.

17.503 Broadcast Operations and Management (3) (MS) The technical and historical development of American broadcasting, the managerial problems that affect operations of a broadcasting station, and the functional structure of American broadcasting. Usually offered every spring.

17.504 Journalism Ethics (3) (MS) (JMS) This course is about values—society's and those of American journalism. A wide range of ethical issues affecting the news business are raised, but there are no definite answers to many of the questions raised in this course. The class discusses the best way of resolving them and looks ahead to future ethical issues on the horizon. Usually offered every fall.

17.505 History of Broadcast Journalism (3) The sights and sounds of history as radio and television brought the news of the world to Americans. Study of the pioneers of the electronic news media and their influence on society, and the evolution of broadcast journalism from the 1930s to the 1970s. Usually offered every spring and summer.

17.507 News Media in Britain (3) Part of the World Capitals Semester in London. The history of print and electronic media in Britain supported by archive illustrations and case histories. Comparisons with United States and other European media and the relationships between government, funding, technology and public opinion.

Media issues such as fairness, political bias, etc. Do the media lead, reflect, or follow public opinion? Also covers communication skills and practices in the media. Usually offered every term.

17.508 The Media and Government (3) (MS) (JMS) The president and the press, other Washington press corps-official relations, the quality of government news reporting and its effect on policy, issues of government information policy, control of the media, and journalists' First Amendment rights. Usually offered every spring. *Prerequisite:* permission of the school.

17.509 Politics and the Media (3) (MS) (JMS) The role of the mass media in the electoral process. Includes examination of candidates' use of the media to get elected and press and television reporting and analysis of political campaigns. Usually offered every fall. *Prerequisite:* permission of the school.

17.510 Women in Journalism (3) (MS) (JMS) Examines women's historical and contemporary participation in print and broadcast journalism. Topics include pioneering woman journalists of the eighteenth, nineteenth, and twentieth centuries, African-American women journalists, newswomen of the battlefield, and depictions of women journalists on film and television. Also covers contemporary issues facing women in journalism, and the portrayal of women on the news media. Usually offered every spring.

17.511 History of Documentary (3) (MS) (JMS) Development of the documentary form from early cinema to the digital era. Explores documentary in terms of aesthetic strategies, ethical issues, and economic and historical context. Usually offered every fall.

17.513 Producing Film and Video (3) (MS) Nontheatrical film marketing and production management. Preliminary research and development of the film proposal; preparation of treatments, contracts, and budgets; cost analysis of production; and relationships between aesthetics and expenses. Use of Washington as a laboratory for marketing experience, including actual client contact. Usually offered every spring. *Prerequisite:* permission of the school.

17.514 Censorship and Media (3) (MS) (JMS) A survey of the history of censorship in the U.S. today in the newspapers, magazines, radio, movies, publishing, and television. International comparisons are drawn, and the problem of censorship in the schools is given special attention. Usually offered every fall.

17.515 Children's Television (3) (JMS) Social effects of commercial and noncommercial television and video on children, with focus on methods to improve children's understanding of television. Individual and group projects. Usually offered every spring.

17.516 Special Topics in Visual Media and Culture (3) (MS) (JMS) Rotating topics in the analysis of visual media and culture from a variety of perspectives, such as film and propaganda, film and ideology. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

17.517 Cross-Cultural Cinema (3) Cross-cultural analysis of film and video, drawing primarily on examples of feature production from Asia, Latin America, Africa, and the Middle East and focusing on the theme of cultural and ethnic identity. Film and video viewings, papers, lectures, and discussion. Usually offered every spring.

17.518 Fundamentals of Digital Media (3) An introduction to current developments in communication and production. Students are exposed to the basics of all current multimedia applications, from

CD-ROM and the World Wide Web to digital effects in film. Usually offered every spring. *Prerequisite:* permission of the school.

17.519 Basic Digital Imaging (3) Students become proficient in utilizing paint software, specifically Photoshop's basic painting, selection and retouching tools. They also become familiar with basic layers, channels and compositing options in the most current formats, and utilize the Digital Lab for their assignments. Usually offered every term. *Prerequisite:* permission of the school.

17.520 Animation for Fun and Profit (3) The history, theory, and practice of animating visual imagery, from Victorian motion toys to Disney and Hollywood's Golden Age to the contemporary boom in animation through computer-assisted technology. Critical examination of animation as a vehicle of entertainment, education, commercial persuasion, and propaganda. Class projects demonstrate different animation techniques. Usually offered every fall.

17.521 Opinion Writing (3) (PJ) Supervised writing of editorials and opinion columns, to include reviews; analysis of editorials and other commentary; policies and practices of opinion writing in the mass media. Usually offered every spring. *Prerequisite:* junior standing and permission of the school.

17.523 Intermediate Photography (3) (VM) A refinement of photographic skills emphasizing a synthesis of craft and expression. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall (Photojournalism) and spring (Fine Arts Printing). *Prerequisite:* 17.430 and permission of the school.

17.525 Advanced Photography (3) (VM) Extensive individual projects, critiques, and professional guest speakers. In-depth exploration of specific themes and techniques based on the goals of each student, and leading toward a professional-level portfolio. May be repeated for credit but not in the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 17.523 and permission of the school.

17.527 The Image: From Camera to Computer (3) (MS) (JMS) A survey of the development of photographic imagery from its advent in the early nineteenth century through contemporary twentieth century work. Emphasis is on viewing work in Washington galleries and museums. Usually offered every spring.

17.529 Large-Format Photography and Studio Lighting (3) (VM) A professional skills course which introduces the 4x5 view camera and studio electronic flash. Both sections are integrated and explore the unique characteristics of the equipment through extensive technical and shooting assignments. Usually offered every fall. May be repeated for credit but not within the same term; topic must be different. *Prerequisite:* 17.523 and permission of the school.

17.532 Publication Layout and Design (3) (PC) Layout, typography, design, and printing in planning and producing newspapers, magazines, books, brochures, and folders. Usually offered every term. *Prerequisite:* permission of the school.

17.533 Ethical Persuasion (3) This course provides students with an ethical context for the practice of public communication and a concept of the ethical issues surrounding the activities of the practitioner. Students have the opportunity to investigate America's value system, the values of American public relations and the relationship between public relations, the media and business. Usually offered every fall.

17.534 Race, Gender and the Media (3) This course challenges students to develop critical skills in examining and analyzing the role of race and gender in the production, distribution and consumption of the American mass media. Student study these powerful institutions and their role in creating, reproducing and reinforcing racism and sexism. The course focuses on media content and considers other social constructions including ethnicity, class, religion and sexual orientation. Usually offered every spring.

17.535 Special Topics in News Media (3) (MS) (JMS) Alternating topics in the analysis and working methods of specialized areas of the news media.

17.538 Contemporary Media Issues (3) (MS) (JMS) Examination of investigative reporting, the "new journalism" and other controversial developments affecting the news media. Assessment of how well the press informs the public. Usually offered every fall.

17.540 American Newspapers (3) (MS) (JMS) Survey of contemporary newspapers. Critical analysis of their editorial and advertising content. Alternative newspapers. Usually offered every fall.

17.545 Business and Economic Journalism (3) (MS) (JMS) Current economic and business issues and their coverage by the news media. The performance of the media in providing the necessary depth of business and economic reporting. How journalists can improve their knowledge and skill. Usually offered every spring. *Prerequisite:* permission of the school.

17.546 Foreign Policy and the Press (3) (MS) (JMS) The role of the American news media in the coverage of foreign policy issues. Philosophical issues include whether freedom of the press is adequately exercised in the foreign policy field and whether the national media sometimes serve as propagandists for the United States government. Students should be prepared to engage in adversarial debates over key issues. Usually offered every spring.

17.547 Great Books in U.S. Journalism (3) Focus is on the development and interrelationship between literature and journalism and the role of noted authors whose works influenced social, cultural and political affairs through the portrayal of human experiences. Students are required to read books representative of the genre, compose essay reviews and offer oral commentaries on the readings.

17.550 Financing and Marketing Independent Productions (3) The non-theatrical film, television, and video industries are multifaceted, dynamic, and enormously complex. This course teaches film and video producers how to finance and market their productions. The course examines different financing and cost recoupment mechanisms that programmers use in building their programming lineup. The focus is on contract production, co-production and production acquisition as typical deal structures used by major programmers. Usually offered every fall.

17.558 History of Motion Pictures I (3) (MS) Origins and development of the theatrical feature-length fiction film from the nineteenth century to 1940. International survey from an American viewpoint. Films are screened, discussed, and criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every fall.

17.559 History of Motion Pictures II (3) (MS) History and development of the theatrical feature-length fiction film from 1940 to the present. International survey from an American point of view. Films are screened,

discussed, and criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every spring.

17.561 Advanced Writing for Film (3) (VM) Emphasizes theatrical film scriptwriting. Students are expected to write a feature-length screenplay during the course of the semester. Students also read and review professionally-written screenplays. May be repeated for credit but not within the same term; content must be different. Usually offered every spring. *Prerequisite:* 17.482/682 and permission of the school.

17.562 Advanced Writing for Television (3) (VM) A workshop that simulates the collaboration experience of a studio writing staff. Students learn to pitch and develop stories for on-going prime-time shows while polishing skills in story development and characterization. A portfolio-quality "spec" script is the end product. May be repeated for credit, but not within the same term; content must be different. Usually offered every fall. *Prerequisite:* 17.482/682 and permission of the school.

17.565 Advanced Visual Media Portfolio (3) Students pursue in-depth visual media projects for their professional portfolios. The course is multi-visual media; students may work in still, moving, or digital image, or any combination of media in which they are proficient. This course serves as a senior thesis project for undergraduate students. Graduate students may repeat the course, but not within the same term. Most class participants produce two projects during the semester. Group critiques are required. Usually offered every spring.

17.570/571 Summer Film and Video Institute (1-3) Permanent and rotating topics related to current practices and trends in the motion picture, video, and television professions. Offered on weekends and evenings during May and June, the institute schedule allows students to select courses in film and video production, direction, writing, design and management, post-production editing, and other related fields. Small classes and active participation are stressed. Usually offered every summer. *Prerequisite:* permission of Summer Film and Video Institute director.

17.584 Film Technology and Practice (6) (VM) Part of the World Capitals Semester in Prague. Introduction to concepts in visual communication through the use of still picture, Hi-8 video, and 16mm non-sync sound film in color. Camera technology, exposure, studio lighting, editing and sound recording, accompanied by analytical screenings and site visits to labs, with a series of sessions with supervising directors, and script consultations. Students edit workprint and magnetic sound on final films. Usually offered every fall. *Prerequisite:* 17.430 or equivalent. *Note:* may substitute for required courses 17.431 and 17.434 for undergraduate Visual Media majors.

17.585 Directing (3) (VM) Part of the World Capitals Semester in Prague. Introduces students to the field of film directing through a series of seminars with the most important film directors in the Czechlands. Topics covered range from the roots of film as art, to casting, choosing a crew, directing for dramaturgical impact, large scenes and extras, the documentary and avant-garde, use of sound and counterpoint, directing the short film and problems of inspiration. Usually offered every fall.

17.586 History of Czech Cinema (3) (VM) Part of the World Capitals Semester in Prague. Through viewing and lectures by some of the most important films and filmmakers in the Czechlands, the course covers the areas of film history most notable to the development of film language in Bohemia: the influences of realism and

neorealism, the Czech New Wave and its aftermath, the avant-garde, the animated film, the FAMU Film School Phenomenon and the short film. Usually offered every fall.

17.587 Screenwriting (3) (VM) Part of the World Capitals Semester in Prague. In this writing workshop students are given assignments to write scenes and scripts for short films and analyze films and scenes to learn the basis of dramatic principles, story patterns and genres. The final project is a script for a short film. Usually offered every fall. *Note:* may substitute for required course 17.482 for undergraduate Visual Media majors.

17.590 Independent Reading Course in Communication (1-6)

17.599 Media, Technology and Society (3) (MS) (JMS) The latest developments in, and the social and legal issues of, communication technology, including text-editing computer systems, word processors, cable, satellites, videotext, and teleconferencing. Usually offered every spring. *Prerequisite:* permission of the school.

Graduate Courses

17.050 Principles and Practice of Journalism (0) An intensive introduction to news reporting and news writing designed to prepare nonjournalists for the weekend graduate program in journalism. Introduces students to governmental principles essential for reporting on public affairs. Usually offered every summer. *Prerequisite:* permission of the school.

Note: When 400 and .600 level courses meet together, graduate-level assignments and higher expectations regarding performance are required of students at the .600 level.

17.601 Legal Aspects of Communication (3) Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law required. Usually offered every fall.

17.617 Direct Media (3) Examination of the theory and practice of communication presentation through direct media, especially, but not exclusively, mail and telephone, to achieve political, fundraising, marketing, and social change objectives. Usually offered every summer. *Prerequisite:* permission of the school.

17.621 Advanced Editing (3) Students edit news and feature stories. Emphasis is on the dynamics of stories and the refinement of stories for publication. Students learn and practice the techniques used in producing a final printed product. Usually offered every fall. *Prerequisite:* permission of the school.

17.623 Computer Techniques for Communication Professionals (3) Provides training in computer skills and social and ethical analysis of new mass communication technologies. Includes hands-on training and rigorous examination of the social and political impact of new media technologies. Course covers use of Internet and other on-line resources, basic use of bibliographic and statistical databases in the news business, and examination of the impact of computers and broadband technologies on mass communication and society at large. Usually offered every spring. *Prerequisite:* permission of the school.

17.624 Principles and Practice of Journalism (3) An intensive introduction to news reporting and news writing. Includes extensive field work reporting on local government and federal government. Introduces students to governmental principles essential for reporting on public affairs. Designed to prepare nonjournalists for the full-time

graduate program in journalism and public affairs. Usually offered every summer. *Prerequisite:* permission of the school.

17.630 Basic Photography (3) Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Meets with 17.430. Usually offered every term. *Prerequisite:* permission of the school.

17.631 Basic Visual Media Production (3) Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and small format video that are critiqued in class, students learn the principles and procedures of sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.431. Usually offered every term. *Prerequisite:* permission of the school.

17.632 Television Field Reporting (3) Instruction in production of television news packages. Merging of script, videotape, and graphics into the final product. Supervision of shooting and editing. Usually offered every term. *Prerequisite:* permission of the school.

17.633 Broadcast Delivery (3) The effective delivery of news on radio and television. Examination and analysis of individual student problems with extensive practice sessions to solve them. Meets with 17.433. Usually offered every spring. *Prerequisite:* permission of the school.

17.634 Location Film and Video Production (3) Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting, refinements of continuity, location sound recording, and visual design. Students with prior experience may emphasize either film or video. Usually offered every term. *Prerequisite:* permission of the school.

17.635 Introduction to Studio Television (3) A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Usually offered every term. *Prerequisite:* permission of the school.

17.636 Washington Reporting (3) Field coverage of people, organizations, and events in the Washington area concerned with domestic or international affairs. In-depth story development, feature writing, and editing. Usually offered every spring and summer. *Prerequisite:* permission of the school.

17.640 Public Communication Principles (3) Formal and informal models used to define, formulate, and design the tasks involved in the creative and management activities of the public communication practice; ethics; public, social, and mass models of communication. Usually offered every fall. *Prerequisite:* permission of the school.

17.642 Public Communication Management (3) The principles and functions of public communication administration and the application of project-centered techniques. Strategies and implementation of tactics in a campaign setting; principles of planning, organizing, staffing, leading, and controlling; issues management. Usually offered every spring. *Prerequisite:* permission of the school.

17.644 Public Communication Writing (3) Analysis of writing models in a variety of styles and media. Exploration of the relationship between audience expectations and communication style and content. Practical experience in the preparation of press releases, brochure copy, and newspaper and magazine articles. Usually offered every fall. *Prerequisite:* permission of the school.

17.646 Public Communication Production (3) Advanced writing, programming, and production, involving various forms of contemporary media including commercial and in-house radio and direct mail, as well as newspapers, newsletters, and magazines. Usually offered every spring. *Prerequisite:* permission of the school.

17.649 International Public Relations (3) The forces of globalization have created a necessity and opportunity for international PR programs. Given the newness of truly international programs, prospective practitioners must gain expertise in cultural sensitivity, knowledge of business cultures, and realistic expectations. The course covers global firms, local agencies, case studies, and PR practices around the world. Offered irregularly. *Prerequisite:* permission of the school.

17.656 Film Production and Direction (3) Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Meets with 17.456. Usually offered every term. *Prerequisite:* 17.634, 17.635, and permission of the school.

17.664 Directing for Camera (3) For students who wish to develop their skills in studio production. The course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with 17.464. Usually offered every fall. *Prerequisite:* 17.634, 17.682, and permission of the school.

17.671 Media Enterprise I: Establishing the Enterprise (3) This course provides the fundamental knowledge needed for film and video producers in the non-theatrical market operating as small business entrepreneurs. Establishing a media production company: creating a business plan, basic economics of the media business, finding investors and/or partners, ways of structuring the enterprise, finding and using legal and accounting services, decisions that effect basic overhead costs, taxes, accounting practices, and personnel considerations. Usually offered every summer.

17.672 Media Enterprise II: Managing the Enterprise (3) This course follows 17.671 and provides students with the knowledge necessary to manage a media production company. Topics covered include cost and cash management, personnel, business communications, networking, negotiating, marketing, distribution of media products, the advantages and disadvantages of expansion, and knowing when to stay with or alter the business plan. Usually offered every fall.

17.682 Writing for Visual Media (3) Techniques of writing scripts for film and television productions. Students write and criticize assignments. No production is involved in this course. Usually offered every fall. *Prerequisite:* permission of the school.

17.686 Video Production and Direction (3) An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with 17.486. Usually offered every term. *Prerequisite:* 17.634, 17.635, 17.682 and permission of the school.

17.690 Independent Study Project in Communication (1-6)

17.691 Graduate Internship (3) Professional communication work in an off-campus organization appropriate to the student's school sequence, which provides experience not available in the curriculum. Usually offered every spring and summer. *Prerequisite:* open to graduate students who have completed with distinction most or all of their sequence requirements. Recommendation of adviser and approval of internship director.

17.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

17.701 Graduate Seminar in Film Theory and Practice (3) The seminar focuses on the development of film theory and criticism. The work of Arnheim, Eisenstein, Kracauer, Bazin, Mitry, and Metz are studied as primary sources. The relationship between theory and production is examined and applied to analysis of specific films. Usually offered every spring. *Prerequisite:* permission of the school.

17.702 Master's Nonthesis Projects Seminar (1-6) Independent work toward project in lieu of thesis for students in the graduate Film and Video program. Course involves regular critiques and discussion. Students usually enroll for two semesters, but may enroll for 6 credits in one semester with permission. Consult graduate program director for registration and participation requirements. May be repeated for credit within the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of the school.

17.710 Seminar in Public Affairs (3) Current issues in the making of domestic, international, and economic public policy in Washington with emphasis on the role of the media. Includes a major reporting project. Usually offered every fall. *Prerequisite:* permission of the school.

17.715 Seminar in International Journalism (3) Focuses on the institutions and issues that make Washington an international journalism capital. Topics include arms control, world peace initiatives, U.S. relations with the Third World, the role of television in foreign policy news coverage. Guests from the State Department, the diplomatic corps, the foreign press corps. Usually offered in the spring. *Prerequisite:* permission of the school.

17.720 Seminar in Journalism (3) Examines ethical and economic issues affecting the press and initiates studies to add to the literature of media criticism. Students become acquainted with team journalism and magazine writing through in-depth projects focusing on press issues. Usually offered every spring. *Prerequisite:* permission of the school.

17.721 Broadcast News I (3) Problems, policies, and practices of the broadcast news media. Emphasis on radio news writing, production, editing, reporting, and broadcasting. Production of audio minidocumentaries. Usually offered every fall. *Prerequisite:* permission of the school.

17.722 Broadcast News II (3) Guidance and training in television news, including producing, writing, and editing for TV newscasts; reporting in the field and production of news packages. Team-produced TV documentaries or domestic or international issues. Usually offered every spring. *Prerequisite:* permission of the school.

17.724 Reporting of Public Affairs (3) Advanced training in writing news as a Washington correspondent with emphasis on the coverage of domestic, international, and economic public policy issues. Conducted with 17.710. Usually offered every fall. *Prerequisite:* permission of the school.

17.735 Communication Theory (3) Communication as an interactive social process. Relevance of social-science theory to the practice of public communication. Implications of public communication operations for the public interest. Usually offered every fall. *Prerequisite:* permission of the school.

17.738 Research Methods in Communication (3) Survey of research in public communication, with particular attention paid to the methodologies employed. Emphasis on the understanding and ap-

propriate selection of quantitative techniques. Usually offered every fall. *Prerequisite:* permission of the school.

17.741 Communication Processes (3) The general processes of communication as applied to public communication. Inter-organizational theory, persuasion, issue identification and analysis, conflict-cooperation assessment. Usually offered every spring. *Prerequisite:* permission of the school.

17.744 Public Communication Seminar (3) Analysis of issues relevant to public communication such as current trends in audience analysis, professional and ethical responsibilities, political trends, and media-government controversies. A variety of perspectives are presented. Usually offered every spring. *Prerequisite:* permission of the school.

17.797 Master's Thesis Seminar (1-3) May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of the school.

Business Administration: MBA

18.095 MBA Workshops (0) Required noncredit workshops designed to develop the student's managerial skills. Topics include managing diversity, oral and written communication, team building, and negotiations and conflict management. *Note:* Workshops are taken pass/fail; all workshops must be passed to complete the MBA degree program. Usually offered every term.

18.601 Management Skills Practicum (1) The acquisition of knowledge and skills in three primary areas: diversity, team building/meeting management, and negotiation/conflict management. Through readings, cases, simulations and out-of-class applications, students gain insights into their personal competencies while developing techniques for effectively managing interpersonal and group processes with an appreciation for cultural differences. Usually offered every term.

18.605 Managerial Economics I: Business, Government, and the International Economy (2) Macroeconomics: gross domestic product and its components. Determinants of consumption and savings. Monetary policy on interest rates, and fiscal policy on taxes and expenditures. Inflation and unemployment. Foreign exchange markets. Project analysis of the aggregate economy. Usually offered every term.

18.606 Managerial Economics II: Economics of the Firm and Industry (2) Microeconomics of the household and firm. Consumer demand and pricing. Incomes, prices and preferences. Firm behavior: variable and fixed costs, hiring labor and capital, and production levels. Firms in perfectly and imperfectly competitive markets. Pricing strategy. Project analysis of firms and industries. Analysis of data on costs, revenue and pricing of a specific firm and business. Usually offered every term.

18.607 Financial Accounting Concepts and Applications (2) A survey of fundamental financial accounting principles focusing on the strengths and limitations of accounting information for external users. Topics include asset and equity valuation, income determination, basic transition analysis, financial accounting alternatives, primary financial statements and financial accounting issues related to multinational operations. Usually offered every term.

18.608 Managerial Accounting Concepts and Applications (2) A survey of fundamental managerial accounting concepts with emphasis on the utility of accounting information for management planning,

control, and decision making. Major topics include cash flows, cost behavior patterns, basic cost accounting, cost-volume-profit analysis, budgeting, special decision applications, responsibility accounting and performance reporting. *Prerequisite:* 18.607.

18.609 Organizational Behavior and Human Resource Management (3) This course covers the current managerial issues involved with the behavior of individuals in organizations. To include such topics as: motivation; recruiting, selection and placement; leadership; performance appraisal; organizational structure; compensation; organizational culture; diversity; equal opportunity; and change. Usually offered every term.

18.610 Quantitative Methods I: Statistics in Managerial Decision Making (2) The decision-aiding tools that can be applied by managers to gain insight into decision problems range from easy-to-visualize graphical displays of data to sophisticated statistical tests. In this course, students, using real-world data sets and microcomputer-based software, learn how to describe sets of measurements, construct probability distributions, estimate numerical descriptive measures, and build linear statistical models. Usually offered every term.

18.611 Quantitative Methods II: Operations Research in Managerial Decision Making (2) Operations research concerns itself with deciding how to best design and operate complex real-world systems. In this course, students, using actual OR applications in production, distribution, transportation, and inventory management, learn how to mathematically model decision problems, solve the models using state-of-the-art microcomputer software, analyze model output, and implement results. Usually offered every term.

18.612 Marketing Management (3) An introduction to current marketing management techniques and the tools necessary for effective marketing decision-making. The course provides a global perspective on marketing management and covers international marketing topics. Interactive learning techniques include the case method and active class participation. Issues including ethics, minorities, and the ecological environment are incorporated as appropriate. Course content requires familiarity with micro economics theory, basic concepts of accounting, and Quattro-Pro or similar spreadsheet program.

18.614 Financial Management (3) This course covers financial theory and techniques of analysis. Topics include valuation theory, theories of risk measurement, managing the firm's investment decisions and capital structure, sources of financing for the firm and financial planning and analysis. Usually offered every term.

18.616 Management Information Systems (3) Covers the theoretical, technological, practical, and managerial foundations of management information systems. Topics include information technologies, systems development, the impact of information systems on business organizations, information technology as a competitive tool, and the management of information systems within domestic and multinational corporations. The course introduces students to current systems and software.

18.618 Manager in the International Economy (3) The practices and principles involved in conducting the functional aspects of business in an international context; includes the study of the nature, scope, and trends of international business as well as the international monetary system, international agreements, and considerations resulting from the environmental differences between nations. Usually offered every term. *Prerequisite:* 18.605, 18.606 and 18.607.

18.621 Quality Management (2) The focus of this course is on the implementation of Total Quality Management (TQM) in manufacturing and service organizations. Students are exposed to the basic concepts of TQM, the technical concepts of statistical process control as well as data analysis for quality problem solving, and issues related to the implementation of TQM. Usually offered every term. *Prerequisite:* 18.609, 18.610 and 18.611.

18.622 Business and Society (1.5) The relationship between business and its stakeholders; business performance with respect to societal and ethical standards; management of issues important to stakeholders, including labor, government, and others.

18.623 Legal Environment of Global Business (1.5) An intensive introduction to the legal and ethical issues confronting the global business manager. Students are exposed to the legal system, legal processes, and several areas of substantive commercial law relevant to the business manager, with the goal of developing recognition of legal and ethical issues and their managerial implications. Examines product liability, the administrative legal process of regulation, antitrust, and the contract as the fundamental legal instrument of global commercial relations.

18.624 Applied Strategic Management in a Global Environment (3) Focuses on developing and applying strategic management to successfully position organizations in a competitive global environment. Course is integrated with previous course experiences to hone decision making, analysis, and oral and written communication skills. Students work in small teams to analyze a real company's external environment, perform an internal corporate audit, and build detailed action plans including implementation issues and financial forecasting. Usually offered every term. *Prerequisite:* Completion of 18.601–18.618; must be taken in student's last semester.

18.626 Field Practicum (3–4.5) Teams of students representing different business functions work on a business problem for a client company. This project may span two or three modules in length. Students and the course instructor meet with the management of the company to define the business problem and the plan of action for the project. Following the completion of necessary research and data analyses, the team submits a written report and makes a presentation of their recommendations to the management of the company. *Prerequisite:* Completion of 18.601–18.618, Business Report Writing Workshop and Business Presentations Workshop.

18.631 Legal Issues of Financial Management (1.5) Particular emphasis on legal concepts related to the financial sales transaction. Students are exposed to the law of sales, commercial paper (negotiable instruments) and secured transactions with emphasis on the Uniform Commercial Codes, Articles 2,3,4 and 9. Students study the particular substantive legal areas related to the sale of goods and the secured financing necessary for that sale and simultaneously explore generic legal issues related to the drafting and interpretation of all statutory materials. *Prerequisite:* 18.623

18.632 Legal Issues of Business Organizations (1.5) Particular emphasis on legal and ethical concepts related to the creation and operation of business organizations. Students are exposed to the law of agency, partnerships, limited partnerships, and corporations. Emphasis is placed on the managerial implications and strategic planning opportunities related to these legal organizational issues.

18.633 Legal Issues in International Business (1.5) A survey of the legal environment of international business. The objective of this course is to offer graduate business students an intensive introduction to the nature of international law, its sources and processes as they relate to the operation of a multinational enterprise. Emphasis is placed on the coordination of principles of international law with sovereignty issues of domestic law in a commercial setting. Usually offered every spring.

18.634 Legal Issues in International Investments and Trade (1.5) This course offers the graduate business student an intensive introduction to the nature of international investment law, the private customary law of trade and both domestic and international schemes for the regulation of international trade. *Prerequisite:* 18.623.

18.650 Global Telecommunications (1.5) The foundation for understanding global commerce is becoming an informed customer of the vast telecommunications infrastructure that is making it possible. This course balances managerial and technical concepts to understand the competitive advantage of telecommunications.

18.651 Systems and Database Design (1.5) This sequel to the systems analysis course (18.657) covers the design activities for developing information systems, particularly database design. Topics cover both the technical facets of database implementation and management of large corporate databases. Course includes case studies and illustrations from global corporations with large distributed systems and hands-on exercises and projects.

18.652 Strategic Management of Global Information Systems (1.5) The strategic role of global information systems and the management issues associated with planning, designing and leading global information systems organization. Managerial responsibilities and strategies are presented through readings, cases, structured discussions and research projects.

18.653 Managing the Global Information Systems Organization (1.5) The organization, management and control of information systems operation, development, implementation and personal on a global scale. Managerial responsibilities and tactics are presented through readings and case studies.

18.654 Impacts of National Information Technology Environments on Business (1.5) The globally-competing firm faces different Information Technology (IT) environments in different nations. This interdisciplinary module covers IT management, development and trade issues tied to legal, cultural, and policy frameworks. Exercises include country studies, policy debates, and a term research paper.

18.656 Current Topics in Management of Global Information Technology (1.5) Topics include emerging technologies and new managed approaches. May be repeated for credit in the same term; topic must be different. Offered irregularly.

18.657 Systems Analysis for Managers (1.5) System analysis is the first step in building an information system. The course focuses on two fundamental skills: understanding the customer's needs and modeling those needs using an automated tool. Includes case studies and illustrations from global corporations and hands-on exercises and projects.

18.658 International Electronic Commerce (1.5) Electronic commerce is the conduct of intra-organizational transactions, messages, and inquiries through purely electronic means, as opposed to paper and/or voice. This course presents a survey of consumer and busi-

ness-to-business electronic commerce models, systems, and technical solutions. Includes hands-on projects and assignments.

18.659 Designing Systems for the Global User (1.5) Designing an easy-to-learn, easy-to-use and pleasing user interface is a challenge to every systems designer and doubly challenging when designing for different cultures and languages. The course covers design methods and principles and their practice using exercises, systems evaluations and a course project.

18.661 Entrepreneurship and New Venture Management (3) Identifies entrepreneurship characteristics and success and failure factors. Explores entrepreneurship and new venture management elements essential to the development of a new venture plan and the initial launching of new ventures. Students develop a new venture idea/opportunity and complete a written business plan which could be presented to a venture capitalist, banker, or other party for funding consideration. Successful strategies for managing and harvesting the new venture are developed. *Prerequisite:* 18.609, 18.612 and 18.614.

18.662 Managing Small and Growing Companies (1.5) Introduces and develops sensitivity to the issues and problems of small business management and successfully managing growing companies. Explores the particular problems associated with rapidly growing entrepreneurial firms. Students work in small teams on a business counseling case under the auspices of the Small Business Institute at the American University and the Small Business Administration.

18.663 Managing a Family Business (1.5) Issues facing family enterprise are addressed. Family business concerns are a unique subset of entrepreneurial, small, and growing businesses. Family business issues, family business systems, family members as employees, boundaries and succession issues are dealt with. Cases and empirical studies of family businesses engage students in family business experiences. Usually offered every term.

18.664 Entrepreneurial Leadership and Organization Creativity (3) Leadership is a creative act; bringing change, setting direction, and focusing organizational energy. This course aims to build skill in thinking "outside the box" and aligning with others to enact a vision of the future. Topics include empowerment of middle managers, corporation/non-profit entrepreneurship, innovation, influence, charisma, and self-management, creativity and vision exercises.

18.665 Management and Entrepreneurship in Service Organizations (1.5) The service sector of the economy is a large and rapidly expanding sector. This course focuses on management and entrepreneurship in a wide variety of service organizations. Also focuses on entrepreneurship in the development of new ventures as well as the application of entrepreneurship in existing larger service organizations.

18.671 Advanced Corporate Financial Management (3) This course examines, at an intermediate level, the problems of managing short term assets including cash, marketable securities accounts receivable and inventory, managing the acquisition and disposal of long-term assets, and financing decisions including leverage, leasing, mergers and international issues. Students become familiar with both the basic theory in each of these areas and various strategies for integrating the theory with practice. Usually offered every term. *Prerequisite:* 18.607, 18.608 and 18.614.

18.672 Securities Analysis (3) Topics covered include: the purpose and operations of security markets; investment instruments and their characteristics; introduction to portfolio and capital market theory; theory of val-

uation, bonds and the term structure of interest rates; options, commodity and financial futures; investment companies; and international investments. Usually offered every term. *Prerequisite:* 18.614.

18.674 Financial Futures and Other Derivative Instruments (1.5) A comprehensive study of equity and debt-based futures with other derivative instruments given secondary consideration. Characteristics of exchanges and market participants. Pricing of derivative instruments. Hedging, speculative, and arbitrage applications of derivative instruments are analyzed. *Prerequisite:* 18.614.

18.675 Portfolio Management (1.5) A study of portfolio performance measurement for various classes of assets. The principles of bond portfolio management are also covered, emphasizing interest rates and immunization. Derivative instruments are covered in the context of hedging strategies. Both intuition and formal models in each area are covered. Statistical and computer applications are integral to the material. *Prerequisite:* 18.614.

18.676 Financial Institutions (1.5) A survey of financial markets and non-depository institutions. Characteristics of money and capital markets and major financial instruments traded on these markets are analyzed. Debt market instruments and the management of interest rate risk are emphasized. Financial institutions covered include insurance companies, pension funds, the U.S. Treasury, federal agencies, mutual funds, and finance companies. *Prerequisite:* 18.614.

18.677 Financial Statement Analysis (1.5) Examination of current techniques of statement analysis. Importance of generally accepted accounting principles. Development of analytic methods from the viewpoint of financial and investment management. Usually offered every fall. *Prerequisite:* 18.614.

18.678 Quantitative Methods in Finance (2) Economic and statistic techniques in a financial context. The emphasis is on applied research, but rigor in the analyses is stressed. Topics may vary from semester to semester, but typically include: multivariate regression, principle components and factor analysis, event studies, and an introduction to non-linear modeling. Usually offered every fall.

18.679 Seminar in Finance (3) Capstone seminar dealing with current issues and recent developments in corporate financial management, investments, and financial institutions. Extensive literature review and research project. Usually offered every term. *Prerequisite:* three advanced finance courses or permission of department chair.

18.690 Independent Study Project (1-6)

18.692 Cooperative Education Field Experience (3-6)

18.700 International Finance (3) Financial operation of the multinational firm, including the sources of funds, foreign investment decisions, and international transactions and taxation. Also included is a study of the related aspects of the international monetary system, foreign exchange markets, and international banking. *Prerequisite:* 18.614 and 18.618.

18.701 International Banking (1.5) This course is designed to familiarize the student with the environment and modus operandi of multinational banks, with the focus on policy- and concept-oriented issues in the arena of international banking. Topics include the structure of international banking, basic functions of international banks, offshore banking, foreign exchange management, risk management, off-balance sheet activities, the regulatory environment, country and political risk assessment, and international bank supervision. Each

topic is addressed from both a theoretical and practical viewpoint. *Prerequisite:* 18.614 and 18.618.

18.703 Assessing International Markets (1.5) The identification, analysis, and evaluation of international market opportunities are studied. The course considers the influence of cultural, economic, legal, and political differences, as well as different forms of international competition, on the practices of marketing and buyer behavior in other country markets. *Prerequisite:* 18.612 and 18.618.

18.704 Issues in International Marketing (1.5) The strategic approach to marketing products and services across national borders, including the modification of the elements of the marketing program to meet the different market needs, environmental constraints, and forms of competition in foreign markets. *Prerequisite:* 18.703.

18.705 Export/Import Management (1.5) The study of the practices and procedures of the export and import processes. The emphasis is on the study of international logistics, the role of the international trade intermediaries, and the development of the export marketing program, particularly for small companies. *Prerequisite:* 18.612 and 18.614.

18.707 Managing Human Resources in Multinational Corporations (1.5) This course examines the human resource implications associated with working in the international arena. Subject areas stressed include: the relationship of culture to human resource management, international human resource management strategy, selecting employees for international operations, performance appraisal and compensation. *Prerequisite:* 18.618.

18.708 Issues in International Training and Labor Relations (1.5) The course examines the human resource implications associated with working in the international arena. Subject areas stressed include: training and development, labor relations, instruction and productivity, security and safety, and termination and repatriation. *Prerequisite:* 18.618.

18.709 Comparative Management Systems (3) The study of business organizational structures and management procedures in different international environments and the applications of important foreign developments in management for U.S. business. *Prerequisite:* 18.618.

18.710 Qualitative Methods in Market Research (1.5) Emphasizes focus group and depth interview data collection methods in marketing research. Students prepare a moderator's guide, conduct a focus group and depth interviews, analyze qualitative data, and write a qualitative research report. Other topics include an introduction to the marketing research process, research design, and use of secondary data. *Prerequisite:* 18.610 and 18.612.

18.711 Strategic Marketing Analysis (1.5) Review of methods and concepts used in the strategic planning process, including sales forecasting, assessment of market response, the effects of scale and experience on costs, the relationship between market share and profitability, the development of portfolio models, and the product life cycle. Cases and empirical exercises. *Prerequisite:* 18.610 and 18.612.

18.712 Marketing Planning and Execution (1.5) Review of the strategic market planning process, industry analysis, market definition and selection, segmentation, positioning, competitor analysis, and strategy formulation and implementation. Cases and a strategy simulation. *Prerequisite:* 18.610, 18.612 and 18.711.

18.713 Survey Methods in Marketing Research (1.5) Focuses on conducting marketing research surveys and analyzing data from mar-

keting research studies. Students design questionnaires, choose appropriate statistical techniques for analyzing marketing research data, and use computer software (SPSS) to analyze data. Statistical applications include chi-square analysis, t-tests, analysis of variance, and simple/multiple regression.

18.714 Buyer Behavior (1.5) Analysis of the psychological foundations of consumer behavior and implications for marketing strategy. Topics include consumer perception, attention, comprehension, and memory; attitudes and attitude-behavior relationships; information integration and decision making; and behavior modification perspectives. *Prerequisite:* 18.612 or permission of department chair.

18.715 Promotion Management (1.5) Survey of promotion management activities, including sales promotion, personal selling, public relations, direct marketing, and institutional promotion. Promotional operations are examined individually and as a part of strategically coordinated promotional programs. Guest speakers from leading advertisers. *Prerequisite:* 18.612 or permission of department chair.

18.716 Advertising Management (1.5) Examination of the advertising methods and techniques. Topics include setting objectives, budgeting, copy strategy, copy execution and testing, media scheduling, and advertising effects models. Guest speakers from advertising agencies. *Prerequisite:* 18.612 or permission of department chair.

18.717 Legal and Regulatory Issues in Marketing Management (1.5) Seminar course that explores marketers' responses to the changing legal and regulatory environment. Topics include advertising and product safety regulations, trademark and antitrust law, and products liability cases. The course features prominent guest speakers from the FTC, FDA, consumer groups, and trade associations who debate current issues with the class. *Prerequisite:* 18.612 or permission of department chair.

18.718 Social and Ethical Dimensions of Marketing Strategy (1.5) Seminar course that examines the implications of social and ethical issues for developing marketing strategy. Topics include environmental issues, international marketing practices, ethical issues in targeting consumers, communicating with Congress and regulatory agencies, managing corporate image, and product recalls. Case studies and guest speakers from consulting firms, corporations, and government agencies. *Prerequisite:* 18.612 or permission of department chair.

18.719 European Marketing Strategies (1.5 or 3) Survey of issues affecting the strategic marketing of firms in the European market. Topics include environmental, legal and regulatory issues of the EC, trends in global industries, multinational strategic planning, and international brand management. A three-week study tour with visits to European corporations. Students have the opportunity to participate in seminar sessions with corporate executives. All students complete a term paper based on their experience and research. Term paper requirements are more extensive for those students registering for 3 credits. *Prerequisite:* 18.612 and 18.618, or permission of department chair.

18.720 Real Estate: Managing Properties (1.5) A study of the analysis and structure of investing in income-producing properties. The efficiency of the real estate market and legal structures of organizations. Appraisal procedures, financing, and acquisition. Cash flow and financial statement analysis, and risk and return. Project analysis. *Prerequisite:* 18.614.

18.722 Real Estate Investment (1.5) Opportunities and risks of real estate investment are examined at the local and global level. These include investment in property and securities swaps and hedging, international investment players, including pension funds and insurance companies. Usually offered every fall. *Prerequisite:* 18.614

18.723 Real Estate Finance and Mortgage Markets (3) This course emphasizes the entrepreneurial side of real estate finance and investment. Students carry out a project, including selecting a property, organizing the venture, developing marketing and leasing, performing an appraisal, obtaining financing, and developing a spreadsheet structure to analyze the risks and returns. Classroom material is fully integrated with the project at each stage. Usually offered every term. *Prerequisite:* 18.614.

18.724 Real Estate Development and Secondary Mortgage Markets (3) The first section of this course examines real estate development, including the pricing and assembly of land and focusing on carrying out a real estate development project. The second considers secondary mortgage markets including securitization, with emphasis on the current state of secondary mortgage markets. Usually offered every term. *Prerequisite:* 18.614.

18.730 Performance Management (3) Review of theory and practice of designing performance appraisal systems. Focuses on task analysis, setting of objectives, selection of rating techniques, appeals procedures and use of the result of performance appraisal systems. Managing the introduction, use, and maintenance of performance appraisal systems. Introducing, tailoring, and integrating the performance appraisal system with other human resource management systems. *Prerequisite:* 18.609.

18.731 Compensation Systems (3) Analysis of concepts and practices of compensation administration in organizations. Wage and salary programs, methods of job evaluation, building wage and salary structures and the legal constraints on the wage and salary administrators and on compensation programs. *Prerequisite:* 18.609.

18.732 Retirement Plan Management (1.5) The course provides an intensive introduction to the business, regulatory and financial context of tax-qualified retirement plans, to include the Social Security system. Included also are an in-depth analysis of the fundamental features and investment strategies of group retirement plans as well as a general summary of their history and development. *Prerequisite:* 18.609.

18.733 Employee Benefits Management (1.5) The course covers the core programs of the typical employee benefits "package", with a special emphasis on health care, life and accident, and disability insurance coverages. Included in the course are summaries of health care cost containment techniques, self-funding strategies for insured plans, "managed care" health insurance alternatives and so-called "cafeteria" benefit programs. *Prerequisite:* 18.609.

18.734 Human Resource Development (1.5) The course surveys the conceptual foundations of the field of human resource development. The course covers current issues in the field and provides specific approaches and methodologies for the creation and operation of effective human resource development and training and programs. *Prerequisite:* 18.609.

18.735 National and International Labor Policy (1.5) Research into current problems, issues and developments in labor and human resource policies in the U.S. and abroad. An inquiry into questions of international competitiveness and international labor standards.

Examination of European Economic Community and North American Free Trade Agreement with regard to human resources. *Prerequisite:* 18.609.

18.736 Recruiting and Selecting a Diverse Workforce (3) An analysis of labor force demographics, study of the Civil Rights Act and other related legislation. The course focuses on providing equal employment opportunity in organizations, achieving equity in recruitment and selection, and improving sensitivity to diverse cultures. *Prerequisite:* 18.609.

18.737 Employer and Employee Rights (1.5) Examines the legal regulation of collective bargaining and workplace standards by analyzing statutes, judicial decisions, and administrative rulings that define the rights and govern the behavior of employers, and unions in contemporary society. *Prerequisite:* 18.609.

18.738 Workforce Planning (3) This course covers the current theories, techniques, and applications of human resource planning in the context of overall organizational strategy, including the principal topics of strategic planning, work design, workforce analysis, information systems, strategic requirements analysis, planning methodologies, implementation and action programming, feedback, control, and evaluation. *Prerequisite:* 18.609.

Economics

Undergraduate Courses

19.100 Macroeconomics 4:1 (3) An introduction to the basic principles of macroeconomics, stressing topics of national income, unemployment, inflation, economic growth, depression, prosperity, international economics, economic development, alternative approaches to economics, and current issues and controversies. Usually offered every term.

19.110 The Global Majority 3:1 (3) Introduction to the plight of less-developed countries, to alternative paths of development, and to the relationships between the more-developed and less-developed countries. The central theme of economic development is based on elementary economic theory. Equally important, human dimensions of development are emphasized through the use of novels and films from less-developed countries. Usually offered every term.

19.200 Microeconomics 4:2 (3) The basic principles of microeconomics and their applications: supply and demand, operation of markets, consumer and enterprise behavior, competition and monopoly, income distribution, discrimination, and alternative approaches to economics. Usually offered every term. *Prerequisite:* 19.100.

19.300 Price Theory (3) Theory of relative prices of commodities and productive services under perfect and imperfect competition. Theory of the firm and consumer demand. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.301 Income Theory (3) Concepts and theory of national income determination, employment, and economic growth. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.302 Comparative Economic Systems (3) Analysis and comparison of different economic institutions as they affect economic democracy, efficiency, and equity. Case studies of the differences between the French, British, German, Swedish, and Japanese economies, and an evaluation of the historical experience of the formerly "socialist" economies. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.303 Sex Roles in Economic Life (3) Analysis of the causes and effects of women's economic status. For economics students, an in-depth look at a particular application of labor economics; for women's studies students and majors in the other social sciences, the discipline of economics is brought to bear on their study of women's place in society. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.304 Labor Economics (3) The application of economic theory to current labor problems, domestic and foreign. Problems include wage theory and wage differentials, training policy, poverty, unemployment and underemployment, discrimination, productivity, industrialization, and union policies. Usually offered every fall. *Prerequisite:* 19.100, 19.200, and 19.300.

19.306 Money and Banking (3) The role of money and credit in the economy. The structure and operations of commercial banks. Federal Reserve System and processes and instruments of monetary policy. Nonbanking financial institutions and the structure of financial markets. Elements of monetary theory. "Flow of funds" and its use in monetary analysis. Usually offered every term. *Prerequisite:* 19.100.

19.307 Political Economy of Economic Development (3) Resource constraints on world growth. The colonial legacy. Market and nonmarket growth models. New strategies of development. Development problems and country emphasis vary with the semester. Usually offered every term. *Prerequisite:* 19.100.

19.308 History of Economic Development (3) Historical investigation of economic development using Europe and the Third World as case studies. Emphasis is on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* 19.100 and 19.200.

19.309 Public Economics (3) The theory of taxation, public expenditure, and fiscal policy. Comparison of fiscal institutions in the United States and abroad. Government approaches to income redistribution and poverty: negative income tax, family allowances, etc. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.310 Introduction to Econometrics (3) Review of the theory of economic statistics and statistical techniques. Emphasis on applying statistical models to economic data. Regression analysis and estimation of economic models. Topics include violations of the basic assumptions of the regression model, dummy variables, and analysis of variance. Index numbers and time series analysis. Usually offered every term. *Prerequisite:* 19.100, 19.200, and 42.202.

19.311 International Economics (3) Introduction to the economics of international trade and finance. Topics include why countries trade; commercial trade policies and their effects; balance of payments and the economics of foreign exchange markets; the operation and effects of fixed and flexible exchange rates. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.312 Industrial Organization (3) Historical and contemporary analysis of industrial market structures and of the behavior of business firms in the United States. Topics include the rise of large corporations, monopoly power and its effects on economic and social welfare, control over large corporations, and governmental regulation of business. Usually offered every fall. *Prerequisite:* 19.100 and 19.200.

19.317 Political Economy (3) Analysis of political economic theories including Veblen, institutionalists, neo-Ricardians, and modern Marxist and American radical dissenters from orthodox neoclassical economic theory, and application of those theories to problems, emphasizing the

interdependence of political, economic, and social forces in contemporary societies. Offered irregularly. *Prerequisite:* 19.100.

19.319 Economic Development of the United States (3) The nature and sources of economic growth, the institutional transformation associated with economic development, and the social and economic consequences of economic change in the United States from the colonial times to the present. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.320 History of Economic Ideas (3) Exposition and analysis of development of economic theory. Emphasis on tracing evolution of economic theories out of specific historical contexts. Major figures and schools in economic thought from Adam Smith to the present. Attention given to the significance of having a separate body of thought called economics. Offered irregularly. *Prerequisite:* 19.100.

19.325 Social Choice and Economic Justice (3) Conservative, liberal, and radical normative theories. Conflicts between efficiency, equity, and liberty. Major contemporary writers on the "just economy." Institutional constraints, the role of the market, voting paradoxes, and the nature of social choice. Concepts of economic rationality. Economic justice and contemporary policy. Meets with 19.625. Usually offered every fall. *Prerequisite:* 19.200.

19.340 Applied Research Methods in Economics (3) Hands-on applications of a variety of practical methods in economic research, including the use of computers, to analyze economic data with the help of spreadsheets, programming languages, and econometric software. Assignments allow students to study policy planning techniques in such fields as taxation, welfare reform, and management of the macroeconomy. Usually offered every spring. *Prerequisite:* 42.202 and either 19.100 or 19.200 or the equivalent.

19.353 Economic Transformation of Central/Eastern Europe (3) Introduces the student to the challenges of transforming from a command economy to the free-market system. Surveys the particular problems and dilemmas faced by individuals and society in the region of Central/Eastern Europe and offers a framework to judge the present successes/failures and to estimate the future. Offered only in Prague. Usually offered every fall.

19.358 Economics of the World Regions (3) Examines economic trends and economic policies in regions such as Africa, East Asia, or the Middle East. Focuses on distinctive economic institutions in the particular region, on the interdependencies within regions, and on the role of public policies in economic growth. Meets with 19.658. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* 19.300 and 19.301 or permission of instructor.

19.371 International Economics: Trade (3) Theories of international trade and competitiveness; the effects of trade on the economies of importing and exporting countries; analysis of the effects of tariffs and quotas and other non tariff barriers. Other topics include multinational corporations; trade and development; customs, unions, and theory of the second best. Usually offered every fall. *Prerequisite:* 19.300.

19.372 International Economics: Finance (3) Determination of income, employment, and inflation in open economies. International impact of monetary-fiscal policies under fixed and flexible exchange rates. Theories of exchange-rate determination. International debt and recycling problems. International monetary organization and reform. Usually offered every spring. *Prerequisite:* 19.301

19.375 Economics of Environmental Policy (3) Develops the economic rationale for environmental policies and examines the impact of environmental factors in economic growth. Students learn about the role of markets in generating and solving environmental problems, the analysis of uncertainty and long-term environment impacts, and the use of taxes and regulation aimed at reducing pollution. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.379 Economics of Energy, Resources, and Environment (3) An introduction to the methods of establishing and evaluating current environmental policy, stressing the trade-off between resource extraction and development on the one hand and environmental quality on the other. Public policy is analyzed within the confines of economic growth, energy development, and environmental amenities. Designed for both majors and nonmajors. Usually offered every fall. *Prerequisite:* 19.300.

19.381/19.382 The World Economy I (4)/The World Economy II (4) The problem of U.S. competitiveness is examined in the context of an integrated world economic system, starting with theories of the world economy: managed trade, free trade, and world systems theory. Regional issues—the third world; U.S. and the European Community; Japan and the U.S.; and market reforms in formerly planned economies—are studied in a policy context of GATT, EC92 and the future of the world economy. Offered only in Paris. Usually offered every spring. *Prerequisite:* 19.100 and 19.200, or equivalent.

19.383, 19.384 Washington Economic Policy Semester Seminar I (4), II (4) Intensive examination of economic policy making in Washington. Encompasses theoretical analysis of economic problems, extensive readings, on-site discussions with economic policy decision makers, preparation of papers, and presentation of alternative paradigms used to understand economic policy. Usually offered every term. *Note:* 19.383 and 19.384 must be taken concurrently.

19.385 Washington Economic Policy Semester Internship (4) Experience in pursuing directed research with an organization directly involved in the field of economic policy. Usually offered every term. *Note:* students must also be enrolled in 19.383 and 19.384. *Prerequisite:* authorization of instructor and dean or department chair.

19.390 Independent Reading Course in Economics (1-6)

19.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

19.398 Honors, Junior Year I (1-6)

19.399 Honors, Junior Year II (1-6)

19.480 Senior Research Seminar (3) Provides senior year economics majors with experience in conducting their own research projects on important issues relevant to public policy. This course involves presentations about research approaches and topics, lectures by economists conducting policy research, a group project and an individual research project. This course involves close consultation between the faculty member and students on the choice of research project and how best to conduct the research. Students present their findings to the class at the end of the term. Usually offered every spring.

19.490 Independent Study Project in Economics (1-6)

19.491 Internship (1-6)

19.498 Senior Honors I (3)

19.499 Senior Honors II (3)

Graduate and Advanced Undergraduate Courses

19.500 Price Theory (3) Theory of resource allocation and price system. Theory of demand, production, and distribution. Market structure and performance. Usually offered every term. *Prerequisite:* 19.505 (which may be taken concurrently) and 19.300 or 19.603, or permission of department.

19.501 Income Theory (3) Keynesian model of income determination. Consumption, investment, and interest rate theories. Keynesian and classical systems compared. Usually offered every term. *Prerequisite:* 19.505 (which may be taken concurrently) and 19.301 or 19.603, or permission of department.

19.504 Economic Thought (3) Major figures in the history of economic thought, their social and economic thought and tools of analysis they created. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.505 Quantitative Analysis of Economic Models (3) Comparative static and comparative dynamic analysis of linear and nonlinear economic models. Usually offered every term. *Prerequisite:* 41.221 or equivalent.

19.507 American Economic Development (3) The pace and structure of economic growth, the institutional transformations involved in economic development, and the social and economic consequences of economic change in the United States since 1600. Focus is on a variety of causal models and methods for explaining economic and institutional change. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.508 European Economic Development (3) Origins and development of capitalism in the Western world, especially in Britain. Emphasis on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* permission of department.

19.511 Theory of Political Economy I (3) An analysis of the methodology of political economy. Value theory, the labor process, alienation, accumulation, and reproduction. Usually offered every spring. *Prerequisite:* 19.521 (may be taken concurrently).

19.512 Comparative Economic Systems (3) A theoretical and historical evaluation of the effects of different economic institutions and their combinations on economic democracy, efficiency, and equity. Distinctive features of the French, British, German, Swedish, and Japanese economies, as well as the historical experience of the formerly "socialist" economies are emphasized. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.521 Mathematical Economic Analysis (3) Mathematical analysis of economic theory and problems. Constrained maxima and minima, linear and nonlinear programming, elementary differential and difference equations, and economic applications. Usually offered every fall. *Prerequisite:* 41.221 and 41.222 or equivalent.

19.522 Econometrics (3) Theory of economic statistics and development of statistical models to be applied to economic data. Statistical criteria, hypothesis testing, multiple regression analysis, violations of the basic assumptions of regression analysis, and analysis of variance. Computer applications. Usually offered every term. *Prerequisite:* 19.505 or 19.521, which may be taken concurrently.

19.531 Financial Markets (3) Institutional and theoretical aspects of creating, holding, and exchanging financial assets—money, credit instruments, and equities. The liabilities created by financial intermediaries and the role of government in financial markets. Usually of-

ferred every spring. *Prerequisite:* 19.500, which may be taken concurrently, or equivalent.

19.532 Monetary Theory and Policy (3) Relation of money and other financial assets to prices, output, and interest rates. Emphasis on the demand and supply of money and on government monetary policy. Usually offered every fall. *Prerequisite:* 19.505 or 19.521, and 19.501.

19.541 Public Economics (3) Rationale for the existence of the public sector. Theory of public goods and taxation. Usually offered every fall. *Prerequisite:* 19.500 and 19.501, or permission of instructor.

19.546 Industrial Organization (3) The structure of industrial markets and the behavior of business firms in the United States. Evaluation of welfare implications of current market structures, business behavior, and related government policies. Usually offered every spring. *Prerequisite:* 19.500.

19.547 Economics of Regulation (3) This course applies microeconomic analysis to the study of regulation and deregulation, with the focus on the U.S. economy. Traditional public utility regulation, price and entry regulation in transportation and service sectors, and the newer social (health, safety, and environmental) regulation are considered. Usually offered every summer. *Prerequisite:* 19.300 and 19.312, or one of 19.500, 19.703 or 19.546.

19.551 Theory of International Trade and Multinational Corporations (3) Theory of international specialization, world trade and development, commercial policy, balance of payments, and multinational corporations. Usually offered every fall. *Prerequisite:* 19.603 or 19.500.

19.552 Economic Transition in Eastern Europe and New Independent States (3) Economic policy in formerly centrally planned economies that are attempting to introduce a market system. Review of the record of economies of the former Soviet Bloc. Emphasis is on applied policy issues such as privatization, freeing prices, property rights, and macroeconomic stabilization. Usually offered every spring. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.555 Political Economy of Latin American Development: Theories versus Realities (3) Overview of post-World War II Latin American economic development; import-substituting industrialization, the growth of the urban informal sector, recurrent balance of payments and fiscal crises, the debt crisis, stabilization and structural adjustment. Economic analysis of principal policy issues: comparative advantage and structure of production, employment generation, foreign capital inflow, privatization, public finance and regional free trade agreements. Usually offered every fall. *Prerequisite:* 19.301 or 19.603 or permission of department.

19.564 Development Finance (3) Alternative approaches and theories to understanding the role of finance in economic development and analysis of the interaction between the financial sector and the rest of the economy. Nature and structure of informal and formal credit markets. Comparative analysis of public versus private financial institutions. Usually offered every fall. *Prerequisite:* 19.500 and 19.501, both may be taken concurrently.

19.571 Labor Economics: Theory (3) Contemporary theories of wages, employment, and prices; collective bargaining; the effect of collective bargaining on wages in the American economy; theories and empirical studies of wage differentials. Usually offered every third semester. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.574 Women in the Economy (3) Examines feminist economic theories, gender-related measurements and economic indicators, issues of paid and unpaid work, women's participation in economic development, effects of development strategies on women, and related social policy issues. Gives students a background on the economics of gender in preparation for conducting research in the women's studies area. *Prerequisite:* 19.603 or equivalent.

19.579 Energy Economics, Resources, and the Environment (3) A systematic introduction to the policy issues associated with the changing role of energy and other resources in modern economics. Specifically, a microanalytic approach is used to evaluate complex policy problems associated with economic growth, energy development, and environmental externalities. For graduate students and advanced undergraduate economics majors. Usually offered every fall. *Prerequisite:* 19.500 or 19.603.

19.580 Environmental and Resource Economics (3) Advanced analysis of environmental and resource economics topics including application of economic theory to the harvesting and valuation of renewable and nonrenewable resources, the role of marketable emissions permits in reducing pollution, the effect of public relief programs on private disaster insurance markets and property development patterns, and contingent valuation methods for measuring environmental damage from manmade disaster and assessing economic liability. Offered irregularly. *Prerequisite:* 19.500 and 19.579 or permission of instructor.

19.590 Independent Reading Course in Economics (1-6)

Graduate Courses

19.603 Introduction to Economic Theory (3) The major analytical tools of price and income theory. No credit toward degrees in the Department of Economics. Usually offered every term. *Prerequisite:* 19.100.

19.610 Cost Benefit and Planning (3) In-depth coverage of social benefit/cost analysis of investment projects in LDCs with particular coverage of identification of national benefits and costs as well as alternative shadow pricing techniques. Hands-on analysis of several investment projects with use of PC-based computational aides. Usually offered every spring. *Prerequisite:* 19.551, 19.611 or 19.671 or permission of instructor. *Note:* not open to students who have taken 19.510.

19.611 Survey of International Economics (3) International trade theory and international monetary economics for graduate students in other departments. Emphasis on policy applications. Primarily for MA students not taking the comprehensive examination in International Economics. Usually offered every spring. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.625 Social Choice and Economic Justice (3) Conservative, liberal, and radical normative theories. Conflicts between efficiency, equity, and liberty. Major contemporary writers on the "just economy." Institutional constraints, the role of the market, voting paradoxes, and the nature of social choice. Concepts of economic rationality. Economic justice and contemporary policy. Meets with 19.325. Usually offered every fall. *Prerequisite:* 19.500 or 19.703.

19.632 Development Banking (3) Public, private, and mixed development banks and their advantages and disadvantages. Relations of development banks to money and capital markets—competitiveness and compatibility with other financial institutions; sources of funds; use of funds; autonomous and syndicated operations; fund management and project supervision; loan repayment; and successive financing and de-

velopment banking as instruments of promoting development. Usually offered every term. *Prerequisite:* 19.500 and 19.501. *Note:* not open to students who have taken 19.533 Development Banking.

19.635 International Capital Markets Workshop (3) A practical study approach to borrowing in major world financial markets. Surveys the technical elements necessary for borrowers and investors to operate in the fixed income securities markets. Emphasis on credit worthiness analysis and rating of public and private borrowers, design of prospectus, registration, pricing, flotation and marketing of public bond issues. Covers some of the long term financing decision making tools and risk management mechanisms available to financial managers. Analysis of primary and secondary markets and transactions in specific international bond markets. Usually offered every fall. *Prerequisite:* 19.531, which may be taken concurrently; and 19.632 or permission of instructor.

19.641 Policy Issues in Financial Economics (3) Applications of the tools of finance to such public policies as government loan guarantees, insuring pensions, bank regulation and deposit insurance, discriminatory lending, and corporate ownership and management. Students will make oral presentations and hear guest lectures by policy makers dealing with financial economic issues. Usually offered every fall. *Prerequisite:* 19.500, 19.531 and 18.679.

19.658 Economics of the World Regions (3) Examines economic trends and economic policies in regions such as Africa, East Asia, or the Middle East. Focuses on distinctive economic institutions in the particular region, on the interdependencies within regions, and on the role of public policies in economic growth. Meets with 19.358. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* 19.300 and 19.301, or 19.603 or permission of instructor.

19.660 Survey of Economic Development (3) This course reviews alternative theories of economic development as well as alternative development strategies including *laissez faire*, planning, regulated market economy, import substitution, and export-oriented industrialization among others. Also addresses contemporary development issues facing LDCs such as agriculture, poverty, labor markets, income distribution, trade, women, environment and balance of payment considerations. Usually offered every term. *Prerequisite:* 19.500 and 19.501, one of which may be taken concurrently. *Note:* not open to students who have taken 19.560 Survey of Economic Development.

19.661 Economic Development Policy (3) Analysis of broad-based sustainable development. Brief review of theories and strategies of development. Analysis of critiques of stabilization, structural adjustment, sectoral adjustment and other open macroeconomic policies. Usually offered every term. *Prerequisite:* 19.603 or equivalent.

19.663 Economic Development: Theory and Applications (3) Application of economic theory to the context of developing countries. Analysis of markets for goods, foreign exchange and factors of production. Relation between market and shadow prices. Measures of protection and resource pull and quantification of comparative advantage and resource cost. Macroeconomics of less developed open economies: non-industrialization and import-substituting. Simple computable general equilibrium and neoclassical models. Usually offered every spring. *Prerequisite:* 19.660. *Note:* not open to students who have taken 19.563 Economic Development: Theory and Applications.

19.671 International Economics: Trade (3) Classical, neoclassical, and alternative theories of the gains from trade and the determination of the pattern of trade. Analysis of the welfare effects of trade policies. Modern theories of trade with increasing returns and imperfect competition; strategic trade policy. Primarily for MA and PhD students taking the comprehensive examination in international economics. Usually offered every fall. *Prerequisite:* 19.505 (or 19.521) and 19.500 (or 19.703). *Note:* not open to students who have taken 19.524 International Economics: Trade.

19.672 International Economics: Finance (3) International monetary economics and open-economy macroeconomics. Balance-of-payments adjustment, exchange-rate determination, capital mobility, and the international monetary system. Primarily for MA and PhD students taking the comprehensive examination in international economics. Usually offered every spring. *Prerequisite:* 19.505 (or 19.521) and 19.501 (or 19.702). *Note:* not open to students who have taken 19.525 International Economics: Finance.

19.690 Independent Study Project in Economics (1-6)

19.691 Internship (1-6)

19.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

19.702 Macroeconomic Analysis I (3) Analysis of determinants of aggregate demand and supply and their interactions in closed and open economies. Theoretical and empirical analysis of sectoral relations including consumption, investment, government, foreign sector, and demand and supply for money. Usually offered every spring. *Prerequisite:* 19.505 or 19.521, which may be taken concurrently. Concurrent enrollment in 19.721 recommended.

19.703 Microeconomic Analysis (3) Theories of demand, market structure and performance, production and distribution, cost and supply. Introduction to general equilibrium analysis. Usually offered every fall. *Prerequisite:* 19.521, which may be taken concurrently.

19.711 Theory of Political Economy II (3) An analysis of advanced topics in value theory, crises and depressions, the theory of money, international capital flows, and distribution. Usually offered every fall. *Prerequisite:* 19.511 or permission of instructor.

19.712 Macroeconomic Analysis II (3) Recent developments in macrotheory (monetarist to new classical school) and macrodynamics, including theory of growth and fluctuation and theory of income distribution. Usually offered every fall.

19.713 Advanced Price Theory (3) An advanced treatment of general equilibrium; capital theory; income distribution theory; welfare and public policy. Usually offered every spring. *Prerequisite:* 19.703, and 19.505 or 19.521. Concurrent enrollment in 19.721 recommended.

19.721 Advanced Mathematical Economic Analysis (3) Systems of difference and differential equations, dynamic optimization techniques such as calculus of variations and optimal control theory, and economic applications. Usually offered every spring. *Prerequisite:* 19.521.

19.723 Econometric Methods (3) Multivariate regression models and the variations on the standard model, including serial correlation, heteroskedasticity, multicollinearity, and stochastic regressors. Introduction to estimation and identification issues in simultaneous equation models. Use of regression software. Usually offered every spring. *Prerequisite:* 42.502.

19.724 Advanced Econometric Methods (3) Extension of econometric theory and applications, including maximum likelihood methods, asymptotic theory, introduction to panel-data and time-series issues. Assessment of econometric models and their use. Usually offered every fall. *Prerequisite:* 42.502 and 19.723.

19.742 Seminar in Financial Economics and Public Policy (3) Capstone seminar serving as the second half of the research requirement for the M.A. in Financial Economics and Public Policy. Building on 19.641, this course requires students to conduct research on current public policy problems dealing with the regulation of financial markets. Research topics may include the design of deposit insurance programs, moral hazard and adverse selection in public insurance programs, credit rationing, lending discrimination and loan redlining practices, regulation of trade in derivative securities, and risk associated with international integration of payments systems. Usually offered every spring. *Prerequisite:* 19.641.

19.774 Seminar in Economic Thought (3) Special topics in the history of economic thought with emphasis on problems of methodology and philosophy. Usually offered alternate springs. *Prerequisite:* 19.504.

19.778 Seminar in Economic History (3) Selected topics and research in economic history, American and European. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* 19.507 or 19.508.

19.781 Seminar in Political Economy (3) Advanced analysis of selected topics in political economy. For doctoral students. Usually offered every spring. *Prerequisite:* 19.511 and 19.711 or permission of the department

19.782 Seminar in Empirical Macroeconomics (3) Advanced topics in macroeconomics and income theory are covered with emphasis given to empirical implications and to econometric procedures available for testing these implications. Topics include stylized facts about economic growth and business cycles and applications of time-series econometric techniques to macroeconomic concerns. Usually offered alternate springs. *Prerequisite:* 19.712 or 19.711 and 19.724 or permission of the department

19.783 Seminar in Empirical Microeconomics (3) Advanced topics in microeconomics and price theory are covered with emphasis given to empirical implications and to econometric procedures available for testing these implications. Topics include model specifications, diagnostic techniques, limited dependent variables, and panel data. Usually offered alternate springs. *Prerequisite:* 19.713 or 19.511 and 19.724 or permission of the department.

19.784 Seminar in International Trade and Finance (3) Advanced topics in international trade and finance. Seminar focuses on empirical research-oriented papers. Research paper is required. Usually offered every spring. *Prerequisite:* 19.671, 19.672 and 19.310 or 19.522 or 19.723.

19.788 Seminar in Economic Development (3) Research seminar involving an in-depth treatment of selected topics. Research paper required. Usually offered every fall. *Prerequisite:* 19.660 or 19.661.

19.790 Seminar in Labor Economics (3) Public policy toward labor unions; the economics of human capital; measurement and analysis of income distribution; poverty measurement and analysis; unemployment and manpower policy; selected topics in labor policy. Usually offered alternate springs. *Prerequisite:* 19.500 and 19.501.

19.797 Independent Research: Master's Thesis Seminar (1-6)

19.799 Independent Research: Doctoral Dissertation Seminar (1-24)

Education

Undergraduate Courses

21.200 Schools and Society 4:2 (3) A multidimensional view of schools, teachers, and students. This social and intellectual foundation serves as a basis for studying contemporary education and the issues of racism, sexism, finance, governance, innovations, and the social context of American education. Lectures, discussion groups, and independent projects. Usually offered every term. *Prerequisite for General Education credit:* 65.100 or 54.105.

21.203 Career Choices: You and Your Future (2) The choice of a major and the career to pursue are important decisions a student can and should control. In this course, students learn research and interviewing skills and apply them to selection of a major and exploration of potential career fields. Usually offered every spring.

21.212 Methodology of Sign Language (3) The principles of manual communication and some principles of American Sign Language (ASL) are introduced. Learning signs and gaining expressive and receptive skills are stressed. Usually offered every spring and fall.

21.240 Analysis of Experiential Learning (3) A review of contemporary theories and research in adult development and learning that provides students with the context to identify, analyze, and synthesize prior experiential learning. Final product is a portfolio that documents such learning. Usually offered every term. *Note:* required course limited to APEL students; may be taken pass/fail only.

21.250 Mathematics for Elementary School Teachers (3) Basic mathematical concepts are considered, providing an understanding of the structure of elementary school mathematics. Tutorial experiences encouraged. Usually offered every term. *Prerequisite:* second-semester freshman standing.

21.319 Children's Literature: Multicultural and International Approaches (3) Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family lifestyles, death and dying, and the international concerns of war and peace. Meets with 21.619. Usually offered every spring.

21.320 Psychology of Education (3) Psychological and sociological concepts of learning taught through the study of the child from prenatal through adolescence. Topics include but are not limited to pupil evaluation, parental involvement, development of cognitive skills, management and motivation of students, self-concept, and individual differences. Usually offered every term.

21.321 Field Experience: Observation and Analysis (1) Observation and analysis of diverse school settings, examining philosophies, curriculum, and teacher and administrator roles, using informal and formal means of data collection with particular emphasis on classroom interactions. Usually offered every fall and spring. *Note:* may be taken pass/fail only.

21.330 Instructional Strategies and Teaching Methods (3) Introduction to research on equity and effectiveness in teaching. Emphasis on development of instructional objectives and speech and presentation skills. General teaching methods: questioning, classroom management, evaluation, and academic learning time. Students demonstrate teaching skills in clinical settings. Usually offered every fall. *Prerequisite:* 21.200, 21.320, and 21.321.

21.362 Classroom Management (3) Preservice teachers learn about the instructional and behavioral components of classroom management. Students gain skills in assessing behavior problems, planning interventions, implementing various strategies, and evaluating the effectiveness of interventions. Special attention is given to diverse populations of students, including those with exceptional needs, those from different cultural backgrounds, those who use English as a second language, and those from low socio-economic backgrounds. Usually offered every fall and summer.

21.371 Foundations of Reading Instruction (3) This course explores the fundamentals of literacy instruction. Attention is given to theories, concepts, principles and research which inform literacy instruction. Special attention is given to the emergent reader, the ESL student, and the political, social, cultural and technological influences on literacy instruction. Usually offered every spring. *Prerequisite:* 21.200, 21.320, and 21.321.

21.389 Gender and Schooling (3) Topics include textbooks, school counseling, sex-segregated schools, school personnel behavior, classroom interaction, curricular bias, adult communication differences, sexual harassment, vocational education, physical education and athletics, and international developments concerning sex equity. Examination of recent attempts to develop sex-fair textbooks, and legal actions such as Title IX of the 1972 Education amendments, and case studies. Meets with 21.689. Usually offered alternate springs.

21.390 Independent Reading Course in Education (1-6)

21.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education Field Experience.

21.402 Methods of Teaching Children with Learning Disabilities (3) An introduction to special education with emphasis on learning disabilities. Attention to perceptual and cognitive development of children, adolescents, and adults with learning disabilities. Emphasis on teaching through children's strengths and interests, meeting their special needs, and techniques of management of behavior. Usually offered alternate springs.

21.490 Independent Study Project in Education (1-6)

21.491 Internship in Education (3-9) Students participate in the professional activities of selected educational organizations or agencies in the Washington, D.C. area. Students gain experience in non-teaching occupations that are integrally related to education and gain skills in educational research and curriculum or program development and dissemination. *Prerequisite:* permission of the director of the internship program and of the dean.

Graduate and Advanced Undergraduate Courses

21.502 Methods of Managing Pupils with Behavior Disorders (3) Psychoeducational methods of understanding and managing inappropriate classroom behavior. Techniques such as groups, problem solving, role playing, and videotape analysis of behavior. Usually offered every fall and summer.

21.519 The Uses of Technology in Education (3) An introduction to computer literacy focusing on the effective use of technology in teaching and educational management. The course emphasizes: criteria for evaluating software; using technology for effective teaching; and applying technology to strengthen management systems. Also

provides students hands-on experience with a broad range of software and practical experience in applying technology to teaching and management. Usually offered every fall.

21.520 Reading, Writing, and Literature across the Curriculum (3) Strategies and approaches appropriate for implementing reading and writing assignments for any content area are presented and practiced. Literature relative to each content area is explored and connected to learnings. Reading assignments, practical course competencies, and opportunities to integrate the three areas are included. Usually offered every summer.

21.521 Foundations of Education (3) An overview of the historical, philosophical, political, and social foundations of American education. Contemporary topics in American education are addressed, including curriculum reform, the reform reports, school governance, school law, and school finance. Usually offered every summer.

21.522 Principles of Effective Methods and Instruction (3) An in-depth examination of the methods and competencies necessary for teaching, including instructional planning, writing objectives, lesson presentation, questioning, interpersonal communication, classroom management, lecturing, and evaluation. Students provide their own transportation. Usually offered every term.

21.525 Principles of Educational Assessment and Testing (3) This course provides an overview of assessment measures and processes used in educational settings, including the following: standardized tests used for administrative and counseling purposes; test construction and criterion-referenced measurement for instruction; and issues such as authentic assessments and portfolios, ethical concerns, and the uses of tests for educational research. Usually offered every spring.

21.540 Methods and Materials in Secondary Education: English, Social Studies, Mathematics, and Foreign Languages (3) Specific methods, materials, and applications to special school subjects. Laboratory experiences in the university classroom and in area secondary schools. Analysis of practical experience with respect to current literature. Students provide their own transportation. Usually offered every fall. *Note:* not open to students who have taken 21.340 Methods and Materials in Secondary Education. *Prerequisite:* admission to the Teacher Education program and permission of SOE adviser.

21.541 Foundations of Special Education for Exceptional Children (3) Characteristics of exceptional children and of problems in providing educational programs to meet their needs. Usually offered every spring.

21.545 Overview of All Exceptionalities: The Arts in Special Education (3) An experiential course treating a variety of handicapping conditions and introducing a panoply of art forms. Students learn to program for success in each art form by building on the abilities, strengths, and interests of each disabled person, systematically programming academic material into arts activities, and teaching socialization and life skills. Usually offered every fall.

21.551 Counseling Skills in Training and Development (3) The development of basic counseling and interviewing skills needed to assist in individual development through the life span, with an emphasis on adult social, personal, and career development. Usually offered alternate falls.

21.552 Teaching Mathematics in Elementary Education (2) Materials and methods for teaching mathematics. Emphasis on the analysis of current research and effective mathematics instruction. Laboratory experiences in the university classroom and in area elementary schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Teacher Education program and permission of SOE adviser. Must be taken concurrently with 21.553, 21.554, 21.555, and 21.556.

21.553 Teaching Language Arts in Elementary Education (2) Strategies for teaching language arts in elementary school. Emphasis is on teaching reading, speaking, and writing skills to elementary school students with special attention to the most current research in language arts instruction. There is practical application in local elementary schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Teacher Education program and permission of SOE adviser. Must be taken concurrently with 21.552, 21.554, 21.555, and 21.556.

21.554 Teaching Social Studies in Elementary Education (2) Lecture, discussion, and practical application of materials and skills for social studies education of children through grade six. Emphasis on the analysis of current research in effective social studies teaching. Field work in local schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Teacher Education program and permission of SOE adviser. Must be taken concurrently with 21.552, 21.553, 21.555, and 21.556.

21.555 Teaching Reading in Elementary Education (3) Through participation in the university classroom and subsequent application of knowledge in the field, students learn the major reading approaches and accompanying materials currently used in elementary schools. Emphasis on the analysis of current research in effective reading instruction. Field work and practice teaching in local schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Teacher Education program and permission of SOE adviser. Must be taken concurrently with 21.552, 21.553, 21.554, and 21.556.

21.556 Teaching Science in Elementary Education (3) Methods, materials, and curriculums used in elementary school science; basic laboratory skills, safety and legal aspects. Field trips and field experiences. A practicum in the schools included. Usually offered every fall. *Prerequisite:* admission to the Teacher Education programs and permission of SOE adviser. Must be taken concurrently with 21.552, 21.553, 21.554, and 21.555.

21.566 Seminar: Cultural Factors in Higher Education (3) Study of college students and their culture. Emphasis on assessment and evaluation of phenomena in the collegiate setting to gain insight into cultural dynamics that bear on student development. Usually offered every spring.

21.583 Curriculum Construction and Program Design (3) A review of the history of curriculum development, an analysis of current curricular issues, development of a comprehensive curriculum design based on a goal-focused model. An emphasis on curriculum development skills for a variety of educational settings. Usually offered every fall.

21.590 Independent Reading Course in Education (1-6)

21.599 Student Teaching (6-15) Student teaching in elementary, secondary, and special education classrooms as appropriate to student interest and professional preparation. Student teaching includes observation, planning, teaching, and conferences with cooperating teachers and university supervisors. Required bi-weekly seminars focus on relevant teaching and educational issues. Students provide their own transportation. Usually offered every fall and spring. *Prerequisite:* successful completion of appropriate methods courses, satisfaction of the School of Education's policy regarding ongoing assessment of academic and professional performance and permission of SOE adviser.

Graduate Courses

21.601 Elementary Education Teaching Methods: Science, Reading, and Language Arts (9) An interdisciplinary teaching methods course with emphasis on current national and state curriculum standards. In-depth examination of the methods and competencies necessary for teaching, including instructional planning, writing objectives, lesson presentation, questioning, curriculum integration, classroom management, and assessment. Includes laboratory experiences in the university classroom, area elementary classrooms, or other appropriate educational setting. *Prerequisite:* admission to M.A.T. program and permission of SOE adviser.

21.602 Elementary Education Teaching Methods: Social Studies and Mathematics (9) An interdisciplinary teaching methods course with emphasis on current national and state curriculum standards. In-depth examination of advanced methods and competencies necessary for teaching, including project-based instructional planning, writing performance-based objectives, lesson presentation, questioning, curriculum integration, classroom management, and portfolio development and assessment. Includes laboratory experiences in the university classroom, area elementary classrooms, or other appropriate educational setting. Students complete an action research project. *Prerequisite:* admission to M.A.T. program and permission of SOE adviser.

21.605 Methods of Psychoeducational Assessment for Learning Disabilities and Emotional Disturbance (3) Critical issues and concepts in the measurement of behavior, data interpretation, and follow-up evaluation for learning-disabled and emotionally disturbed children and adolescents. Usually offered every spring. *Prerequisite:* 21.645.

21.606 Theories and Methods in Diagnostic and Remedial Mathematics (3) Readings, demonstrations, educational games, and laboratory exercises. The material is implemented in trainees' classroom. Usually offered every spring.

21.607 Research Seminar in Special Education (3) A review of basic research designs used in special education, with emphasis on developing an interdisciplinary research case study. Usually offered every fall. *Prerequisite:* permission of instructor.

21.608 Educating for Global Citizenship (3-6) This six-week institute for elementary and secondary teaching examines the dynamics of conflict and peacemaking through a case study approach to current conflicts. Review and development of curriculum materials and instruction in conflict resolution skills provide the context for transferring the themes of the institute to classroom situations. Meets with 33.608. Usually offered every summer. *Prerequisite:* permission of instructor.

21.610 Methods of Inquiry: Utilizing Information Effectively (3) Examines how qualitative and quantitative research is utilized to understand complex issues. Explores how research shapes and influences educational policy and practice, how individuals evaluate the efficacy of research information received, and how they make informed choices and decisions when initiating research by themselves or others. Usually offered every fall.

21.611 Formative Ideas of Contemporary Education (3) Analysis of turning-point social and educational thought and research instrumental in shaping modern educational institutions, their cultures, policies, and practices. Social ideas and educational research and philosophy are linked to institutional values, policy and practice, and to contemporary educational issues such as equity, multiculturalism, and global education. Usually offered every spring.

21.612 Educational Equity (3) Designed to investigate the impact of bias in school. From earliest colonial schools to contemporary classrooms, bias, selectivity and access have short circuited the education of students based on race, religion, gender, ethnicity, class, and disability. Provides both historical perspective and contemporary knowledge and skills to recognize and remediate bias. Course content explores equity issues in neighborhood schools, higher education as well as the international community. Usually offered alternate springs.

21.615 Functions of Education in Social and Historical Perspectives (3) Examines the historic and contemporary role and structure of American educational systems. Assesses the broad social functions of education through consideration of its societal impact as a transmitter of culture, agent for socialization and opportunity, and catalyst for individual and social betterment. Usually offered every fall.

21.619 Children's Literature: Multicultural and International Approaches (3) Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family lifestyles, death and dying, and the international concerns of war and peace. Meets with 21.319. Usually offered every spring.

21.620 Theories of Educational Psychology and Human Development (3) Surveys research literature in learning and human development with an emphasis on the role of educators as decision makers and change agents, who are knowledgeable about diversity and multiculturalism. Emphasizes the role today's educators play on advancing knowledge about instructional technology, human relations, time management, principles of growth and development, and the processes of memory and cognition. Usually offered every spring and summer.

21.625 Global Education (3) This course deals with the role of American education in an interdependent world, examining both the multicultural character of American classrooms and the international dimensions of the American school curriculum. It explores such issues as ethnocentrism, empathy, and global awareness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Usually offered every spring.

21.631 Fundamentals of Management in Educational Organizations (3) Overview of the general characteristics of organizations and organizational change, and the roles and tasks of managers, with emphasis on the distinctive nature of educational organizations. Analysis of the organizational issues faced in providing quality education, and the managerial and leadership skills necessary to operate effectively in educational organizations. Usually offered every fall.

21.632 Case Studies in Educational Management (3) A case-study approach to examining administrative, managerial, and leadership issues in educational institutions. The course focuses on developing problem solving skills through the analysis of specific incidents, programs, and practices. May be repeated once for credit; case studies must be different. Usually offered every summer. *Prerequisite:* 21.631.

21.633 Financing Educational Systems (3) Principles and practices of financing public education programs at federal, state, and local levels. Taxes, bonds, budgets, purchasing systems, accounting systems, and other aspects of school business administration are covered. Usually offered every spring.

21.634 Education and Public Policy (3) Examines the major public policy issues in American education: equity, excellence and efficiency. Emphasizes theories and techniques of policy analysis, including implementation strategies, cost/benefit analysis, and evaluation. Usually offered every spring.

21.639 Effective Leadership Skills (3) A theory-based, skills-oriented workshop for administrators, dealing with concepts of administrative effectiveness, administrative style awareness, style flexibility, situational diagnosis skills, and team skills. Usually offered every spring. *Prerequisite:* 21.631.

21.640 Rotating Topics in Adult and Experiential Learning (3) Focuses on the experiences and participation of adults as learners. The range of topics includes: institutional responses to the increased participation of adults; instructional strategies and curriculum development for adult learners; the efficacy and implementation of experiential learning; and the concepts and practices of adult learning theory. May be repeated for credit; topic must be different. Usually offered every term.

21.641 Practicum in Adult and Experiential Learning (3-6) Provides opportunities to apply academic work in adult and experiential learning in practical settings. Students work in educational settings appropriate to their professional interests; activities include program development, developing criteria for assessing portfolios of experiential learning; creating institutional support programs for adult learners, and designing workshops on faculty development in teaching adult learners. May be repeated for credit, but not within the same term; topic may be the same (may not exceed 6 credit hours). Usually offered every term.

21.644 Language Development and Remediation (3) How does one learn to use language to express thoughts and feelings? How does one teach a learning-disabled child to communicate effectively? This course discusses the developmental sequence of language learning, the nature of language disorders, diagnostic assessment of language disorders, and remedial techniques. Usually offered every fall.

21.645 Learning Disabilities I (3) Examines neurological and developmental aspects of learning disabilities. Usually offered every fall. *Prerequisite:* permission of instructor.

21.646 Learning Disabilities II (3) Develops diagnostic capabilities in order to select and design materials and programs for learning-disabled children and youth. Special problems of learning disabled adolescents and adults are studied in depth. Post-secondary education, career awareness, and career development approaches and programs are represented. Counseling techniques for parents and mainstream teachers are addressed. Usually offered every spring. *Prerequisite:* 21.645.

21.653 Techniques and Theories of Counseling in Education (3) Contemporary theories of counseling, personality, and psychotherapy. Discussion of techniques and issues in counseling; practice interviewing and counseling using specific techniques. Offered irregularly. *Prerequisite:* 21.551.

21.654 Career Counseling Theory and Practice (3) Administration and interpretation of vocational tests; methods of preparing and presenting occupational information; research and theories of vocational choice; theories and practices in placement. Emphasis is on the adult learner. Usually offered alternate springs. *Prerequisite:* permission of instructor.

21.662 Classroom Management (3) Preservice teachers learn about the instructional and behavioral components of classroom management. Students gain skills in assessing behavior problems, planning interventions, implementing various strategies, and evaluating the effectiveness of interventions. Special attention is given to diverse populations of students, including those with exceptional needs, those from different cultural backgrounds, those who use English as a second language, and those from low socio-economic backgrounds. Usually offered every summer and fall.

21.663 The Community College (3) Organizational patterns, diversity of function, students and faculty, and current problems of the two-year institution. Usually offered in alternate years.

21.666 Legal Issues in Education (3) For advanced graduate students pursuing degrees in Administration or Counseling and Development. Study of student-institution relationship, institutional judicial systems, student rights, records, and due-process issues. Usually offered in alternate years.

21.671 Foundations of Reading: Diagnosis and Remediation (3) Broad considerations underlying the teaching of reading with emphasis on reading disability and problems of the disabled reader. Usually offered every fall and summer.

21.678 Comparative and International Education (3) Examines education as a social institution that both reflects and influences social, economic, and political life in nation states and globally. Emphasizes the role of education as an engine for change in the Third World. Organized around a logical framework of analysis, sometimes called the Sector Assessment Format, this course analyzes and compares educational systems by examining issues of access, equity, international efficiency, quality, and external efficiency. Offered irregularly.

21.682 School Supervision (3) For prospective and in-service supervisors of elementary and secondary schools. Clinical and human resources models of supervision. Field practicum. Offered irregularly. *Prerequisite:* permission of instructor.

21.689 Gender and Schooling (3) Topics include textbooks, school counseling, sex-segregated schools, school personnel behavior, classroom interaction, curricular bias, adult communication differences, sexual harassment, vocational education, physical education and athletics, and international developments concerning sex equity.

Examination of recent attempts to develop sex-fair textbooks, legal actions such as Title IX of the 1972 Education amendments, and case studies. Meets with 21.389. Usually offered every spring.

21.690 Independent Study Project in Education (1-6)

21.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

21.693 Personnel and Program Evaluation (3) The course seeks to develop the systematic skills needed to conduct evaluations of training and development programs in various educational and organizational settings. Usually offered every spring.

21.765 Seminar in Educational Leadership (3) Analysis and integration of major theoretical approaches of educational leadership. Emphasis will be on current research about educational leadership and critical examination of current issues and problems facing educational leaders. Usually offered every spring.

21.769 Practicum in Educational Management (3-6) Advanced students in educational management apply principles taught in educational policy, leadership and management courses to a practical setting. Students work in administrative settings appropriate to their career interests. May be repeated for credit, but not in the same term; topic may be the same. Usually offered every summer.

21.790 Educational Research (3) Fundamentals, methods, and materials for educational research. Usually offered every spring. *Prerequisite:* 21.525 or equivalent and admission to a graduate degree program in education. Doctoral students must have completed research requirements and two comprehensive examinations.

21.792 In-Service Training Project: Internship in Education (3-12) Internships in cooperating school systems and other agencies and organizations as an integral part of degree programs in the School of Education. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

21.797 Master's Thesis Seminar (1-6) At least three credit hours are required of all students working on master's theses. Usually offered every term.

21.799 Doctoral Dissertation Seminar (1-12) This course provides opportunities for students with approved dissertation proposals to continue their research, analysis, and writing in a learning environment providing faculty supervision and peer support. Emphases include editing, organization, and analytic and interpretive techniques to complete a dissertation. Usually offered every term. *Prerequisite:* 21.790 or equivalent and advancement to candidacy. *Note:* may be taken pass/fail only.

Literature

Undergraduate Courses

23.010 College Reading (2) Develops the ability to cope efficiently with the rigors of academic life. Emphasizes practical techniques of reading in different disciplines, speed reading, time management, note taking, exam skills, and research. Usually offered every term. *Note:* no academic credit is received for this course, nor does it fulfill a requirement for any degree program. Credit equivalent is listed for determining full-time status only.

23.100 College Writing (3) Develops students' skills in reading with understanding, summarizing and synthesizing information accurately, and writing correct, reasoned prose. Usually offered every term. *Note:* Completion of 23.100 and 23.101 with grades of C or better

fulfills the university College Writing and English Competency Requirement.

23.101 College Writing Seminar (3) Continues the work begun in 23.100, stressing the student's abilities to construct extended arguments, to synthesize diverse materials, and to pursue library research. Usually offered every term. *Prerequisite:* 23.100 or permission of department. *Note:* Completion of 23.100 and 23.101 with grades of C or better fulfills the university College Writing and English Competency Requirement.

23.102 College Writing (3) 23.102 and 23.103 are essentially the same as 23.100 and 23.101. They are designed, however, for students whose language skills need special attention, and they have an additional class session each week. Usually offered every term. *Note:* Completion of 23.102 and 23.103 with grades of C or better fulfills the university College Writing and English Competency Requirement.

23.103 College Writing Seminar (3) See course description for 23.102. Usually offered every term. *Prerequisite:* 23.102 or equivalent. *Note:* Completion of 23.102 and 23.103 with grades of C or better fulfills the university College Writing and English Competency Requirement.

23.105 The Literary Imagination 1:1 (3) Explores the fundamental imaginative processes that underlie and connect the activities of literary creation and literary understanding. Besides reading works by both male and female writers chosen from a variety of times and places to represent each of the major genres, students also do critical and creative writing of their own. Usually offered every term. *Note:* not open to students who have taken 23.141 Understanding Literature.

23.115 Remarkable Literary Journeys 2:1 (3) A selective introduction to the tradition of Western literature from oral epic to twentieth-century texts, this course builds on a central literary metaphor: the idea of the journey or quest. Diverse literary masterpieces embody but also go beyond this concept, offering students a rich foundation in classical works of the Western literary imagination. Usually offered every term.

23.120 Interpreting Literature 1:1 (3) This course teaches students to analyze and interpret literary texts: poetry, drama, and prose fiction. It teaches the general process through which one comes to a more comprehensive understanding of literary works. Since interpreting entails the ability to communicate understanding, the course also teaches the writing of interpretive criticism. Usually offered every term.

23.130 Honors English I (3) Limited to first-year students, by invitation. Usually offered every fall. *Note:* Completion of 23.130 and 23.131 with grades of C or better fulfills the university College Writing and English Competency Requirement.

23.131 Honors English II (3) Limited to first-year students, by invitation. Usually offered every spring. *Note:* Completion of 23.130 and 23.131 with grades of C or better fulfills the university College Writing and English Competency Requirement.

23.135 Critical Approach to the Cinema 1:1 (3) Analysis of film content and style through screenings and substantial readings in aesthetic theory and film history. Also considers social issues, cultural artifacts, and forms of artistic expression. Usually offered every term.

23.150 Third World Literature 3:1 (3) An introduction to literature written by writers from the Third World: Africa, Asia, and Latin

America. The emphasis is on contemporary fiction and the ways that this writing depicts cultural and political change brought about by the impact of outside forces. Usually offered every term.

23.180 Writing Workshop (3) An intensive writing seminar reviewing grammar and the principles of clear, correct expository prose. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or 23.102 and 23.103 or permission of instructor.

23.200 Introduction to Creative Writing (3) Creative writing for beginning students who want to write poetry, fiction, drama, reportage, and autobiography, with specific assignments in each category. With departmental permission, course may be repeated for credit, but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.202 Writing for Prospective Lawyers (3) An advanced course in writing designed to hone the skills necessary to write legal briefs, memoranda, and agreements. Particular attention is paid to logic and argumentation. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.203 Business Writing (3) The course stresses clarity, conciseness, and directness in the preparation of correspondence, memoranda, reports, proposals, and other kinds of writing common in the business world. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or 23.102 and 23.103.

23.205 Issues, Ideas, and Words (3) Through class discussions and frequent written assignments, the course helps students understand and articulate their learning in relation to thought in the humanities, natural sciences, and social sciences. Usually offered every term. *Prerequisite:* enrollment limited to students in the AP&L program. *Note:* Completion of 23.205 and either 23.101 or 23.103 with grades of C or better fulfills the university College Writing and English Competency Requirement.

23.210 Survey of American Literature 1 (3) A historical study of American writers and their contributions to the diversity of American literary forms and intellectual life, from the Puritan settlement to Dickinson and Whitman. Writers are appraised aesthetically, both individually and in cultural context. Usually offered every fall.

23.211 Survey of American Literature II (3) A historical study of American writers and their contributions to the diversity of American literary forms and intellectual life, from post-Civil War to the present. Writers are appraised aesthetically, both individually and in a cultural context. Usually offered every spring.

23.215 Writers in Print/in Person 1:2 (3) Offers students the opportunity to study works by contemporary authors and then to continue their exploration of these works in meetings with the writers. Features locally and nationally prominent writers, including American University writing faculty. Usually offered every term. *Prerequisite for General Education credit:* 23.120 or 67.115.

23.220 Survey of British Literature 1 (3) A historical exploration of a range of writers in the British tradition, from Chaucer through the eighteenth century. Writers are examined as individual artists and as representatives of their age. Usually offered every fall.

23.221 Survey of British Literature II (3) A historical exploration of a range of writers in the British tradition, from the Romantic period through the twentieth century. Writers are examined as individual artists and as representatives of their age. Usually offered every spring.

23.225 The African Writer 1:2(3) Contemporary African literature, with special emphasis on the role of the writer. The course includes many of the major African literary works of the last sixty years—fiction, poetry, and drama—and at the same time focuses on the African writer's unique role as creator of functional art. Usually offered every fall. *Prerequisite for General Education credit:* 23.120 or 23.105.

23.230 Major European Writers I: An Introductory Survey (3) A study of selected continental writers from the Greeks to the seventeenth century. The method is chronological, with attention given to the emergence and development of major literary forms. Usually offered every fall.

23.231 Major European Writers II (3) An introductory survey of the major European writers and literary periods from the eighteenth to the twentieth century. Usually offered every spring.

23.235 African-American Literature 2:2 (3) A survey of African-American literature beginning with the poet Phillis Wheatley and the slave narratives of the 1700s and concluding with Malcolm X and Toni Morrison. The emphasis is on the continuity of black writing within its historical and cultural contexts. Usually offered every spring. *Prerequisite for General Education credit:* 23.115 or 29.115 or 76.150.

23.240 Narrative and Knowledge 1:2 (3) Since Aristotle's distinction between tragedy and history, the novel has been defined by its relationship to true events. This course confronts the aesthetic workings of various narratives, their roots in romance and history, as well as how they refer to "reality," historical fact, and transcendent truth. Usually offered every term. *Prerequisite for General Education credit:* 23.105 or 23.135.

23.245 The Experience of Poetry 1:2 (3) Without dwelling on "professional" terminology and technique, the course aims to make poetry more accessible and enjoyable through reading, writing, and discussion. Students are asked to write some poetry along with nearly traditional papers, but the poetry assignments are designed to reassure those who doubt their creativity. Usually offered every term. *Prerequisite for General Education credit:* 23.120 or 23.105.

23.250 Image of Italy in English and American Writers (3) From Edward Gibbon to Ezra Pound, English and American writers have been stimulated by their experience in Italy in a way fundamental to the development of their work. This course explores the changing and complex image of Italy in English and American literature. Offered only in Rome. Usually offered every term.

23.265 Literature and Society in Victorian England 2:2 (3) The connections between literary works and their social context. The course is divided into significant cultural topics, such as the effect of scientific advancement on society at large, how Victorians perceived themselves at home and at work, and how issues of political reform affected literary works. Readings include historical studies, as well as novels and poems. Usually offered every spring. *Prerequisite for General Education credit:* 29.110 or 23.115 or 76.150.

23.270 Transformations of Shakespeare 1:2 (3) Shakespeare's use of dramatic form, such as tragicomedy, masque, and spectacle. In addition, students learn about the interrelationship between form and meaning by seeing how the cultural myths encoded in these genres become transformed in different ages, media, and cultures. Usually offered every term. *Prerequisite for General Education credit:* 07.105 or 23.120 or 67.115.

23.301 Development of the Novel (3) A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre. Meets with 23.601. Usually offered alternate falls.

23.303 The Short Story (3) Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). Meets with 23.603. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.306 Topics in Folklore (3) Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. Meets with 23.606. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.307 Drama: The Page and the Stage (3) Examples of major dramatic forms (tragedy, comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Meets with 23.607. Usually offered alternate years.

23.308 Modern Drama (3) Modern dramas written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc. Meets with 23.608. Offered irregularly.

23.309 Theater in England (3) Drama in performance. Plays from the classical to the contemporary at venues ranging from London's National Theatre to the Royal Shakespeare Company in Stratford-upon-Avon. Literary, theatrical, and historical analysis of the plays and class discussions with actors from two performances. Required of all London Semester students. Usually offered every term.

23.310 Major Authors (3) Intensive study of the works of one or more important authors. Attention is paid to the evolution of the author's canon, to the effects of (and on) the literary context, to the relationship between works and biography, and to the historical and cultural context of the writer. Meets with 23.610. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.315 Poetry in the Age of Whitman and Dickinson (3) Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Meets with 23.615. Usually offered alternate falls.

23.316 Nineteenth Century American Novel (3) Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville. Meets with 23.616. Usually offered every year.

23.318 American Literary Realism (3) Characteristics of novels and short fiction in the realist and naturalist modes. Reading includes works by such writers as Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Theodore Dreiser, Edith Wharton, Robert Penn Warren, and Richard Wright. Meets with

23.618. May be repeated for credit within the same term; topic must be different. Usually offered alternate falls.

23.320 Modern American Poetry, 1912–1950 (3) Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be considered at the discretion of the instructor. Meets with 23.620. Usually offered alternate springs.

23.321 Faulkner and the Literature of the South (3) Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Meets with 23.621. Usually offered alternate springs.

23.322 Contemporary American Literature (3) Topics in American poetry and fiction since World War II. Examination of theories, forms, and strategies of recent fiction; and theories, figures, and modes of recent poetry. Meets with 23.622. May be repeated for credit within the same term; topic must be different. Usually offered every year.

23.325 Fitzgerald and Hemingway (3) A study of the fiction of Fitzgerald and Hemingway with emphasis on their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works. Meets with 23.625. Usually offered every year.

23.330 Celtic Myth and Literature (3) Shows the vital importance of literature in all aspects of early Indo-European society—religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myth, as well as major sagas and poems of Ireland and Wales. Meets with 23.630. Usually offered alternate years.

23.331 Chaucer (3) A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature. Meets with 23.631. Usually offered every spring.

23.332 Shakespeare Studies (3) Rotating topics on the works of William Shakespeare, including selected early plays, selected later plays, and Shakespeare on film. Meets with 23.632. May be repeated for credit within the same term; topic must be different. Usually offered every term.

23.334 Literature of the Renaissance (3) Topics in Renaissance literary studies, including Renaissance drama other than Shakespeare (Christopher Marlowe, Ben Jonson, and others), and Renaissance poetry with special emphasis on Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. Meets with 23.634. May be repeated for credit within the same term; topic must be different. Usually offered every year.

23.336 Milton (3) Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. Most of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view. Meets with 23.636. Usually offered alternate falls.

23.337 Restoration and Eighteenth Century Literature (3) Major writers and dominant forms in the Restoration and Neoclassical tradition, including drama, prose fiction, and poetry, as well as essays and satires. Meets with 23.637. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.339 The Rise of the British Novel (3) A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth century England. Meets with 23.639. Usually offered alternate falls.

23.340 Dickens to Conrad: The Nineteenth Century British Novel (3) Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal verities. Technique is studied, as well as theme and character. Meets with 23.640. Usually offered alternate springs.

23.341 The Romantic Imagination (3) Most offerings focus on central figures in the English Romantic movement (Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats), but some broaden the term "Romantic" to include writers from various periods and countries who see the imagination, rather than discursive reason, as the prime means of apprehending the truth behind phenomena. May be repeated for credit within the same term; topic must be different. Usually offered every year.

23.343 Modern British Literature (3) Topics in the twentieth-century literature of Great Britain including matters of technique, style, and social themes. Reading and discussion of such representative writers as Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, Hardy, Yeats, Edith Sitwell, Auden, Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. Meets with 23.643. May be repeated for credit within the same term; topic must be different. Usually offered alternate years.

23.345 The Irish Renaissance (3) The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of modern Ireland. Meets with 23.645. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate years.

23.350 Literature of Central Europe in the Twentieth Century (3) Introduces students to the literary interrelations among the various national and ethnic groups of Central Europe including Bohemia, Austria, Germany, and Hungary, and their dependence on Russian and Scandinavian authors. Writers studied include Dostoevsky, Kafka, Koestler, Kraus, Meyerink, Schnitzler, Werfel, and Zweig. Offered only in Prague. Usually offered every fall.

23.360 Medieval Literature (3) The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic, drama, lyric, and romance in translation. May be repeated for credit, but not within the same term; topic must be different. Meets with 23.660. Usually offered alternate falls.

23.361 Directions in Modern Fiction (3) Fiction that embodies distinctive threads of the twentieth century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on literary techniques and innovations, such as stream of consciousness, point of view, and chronology. Meets with 23.661. Usually offered alternate springs.

23.365 The Political Novel (3) An investigation of how writers engage political issues or the political process in fiction. Includes such works as Henry Adams's *Democracy*, Robert Penn Warren's *All the King's Men*, Emile Zola's *The Debacle*, George Orwell's *1984*, Arthur Koestler's *Darkness at Noon*, and Albert Moravia's *The Fancy Dress Party*. Meets with 23.665. Usually offered alternate years.

23.367 Russian and Soviet Literature (3) An introduction to Russian and Soviet literature in translation from the Middle Ages to the present. Meets with 23.667. Usually offered alternate springs.

23.368 Dostoyevsky and Tolstoy (3) Intensive study of selected works of Dostoyevsky and Tolstoy. Authors are treated individually with some comparison. Meets with 23.668. Usually offered alternate falls.

23.370 A Room of One's Own: Women and Literature (3) Women as writers of and characters in literature. The major issues covered are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others. Meets with 23.670. Usually offered every fall.

23.375 Film and Literature (3) Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. Meets with 23.675. May be repeated for credit within the same term; topic must be different. Usually offered alternate years.

23.376 National Cinema (3) Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic movements, historical contexts, and clashing theories and styles. Meets with 23.676. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.377 Popular Film Genres (3) The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Meets with 23.677. May be repeated for credit in the same term; topic must be different. Usually offered every term.

23.378 Major Filmmakers (3) Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini, Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Meets with 23.678. Usually offered every year.

23.380 Independent Filmmakers (3) Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Dehnen, and scores of others destroy the myth

that only commercial, feature-length films can be great. Meets with 23.680. Usually offered alternate springs.

23.381 Topics in Jewish Literature and Film (3) Rotating topics explore one theme or period in Jewish literature and/or film. Topics may include Holocaust literature and film, Hebrew literature and Israeli film, Yiddish literature, American Jewish literature and film, and Jewish folktales. May be repeated for credit but not in the same term; topic must be different. Meets with 23.681. Usually offered every spring.

23.390 Independent Reading Course in Literature (1-6)

23.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

23.400 Creative Writing: Fiction (3) A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. Meets with 23.700. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite*: 23.200 or equivalent, or permission of instructor.

23.401 Creative Writing: Poetry (3) An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. Meets with 23.701. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite*: 23.200 or equivalent, or permission of instructor.

23.402 Creative Writing: Film Script (3) An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. Meets with 23.702. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite*: permission of instructor.

23.405 Seminar on Translation (3) Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Meets with 23.705. Usually offered every spring.

23.490 Independent Study Project in Literature (1-6)

23.491 Practical Internship in Literature (3) Practical work in writing and research for various agencies and publications. Experience in apprentice teaching with private schools and diverse groups. Internships are available in the Writing Center. Project must be approved in advance by department chair or undergraduate adviser. Usually offered every term.

23.498 Senior Seminar in Literature: The Value of Literature (3) Addresses the following questions: Is literature separable from other forms of linguistic expression? Are there modes of interpretation and study unique to literature? Why has the assertion of literary value found expression in specifying a canon of particular works? Since art and literature are traditionally defined in terms of secondariness, either as reflection, mimesis, or as refinement, the course also addresses the issue of secondariness and marginalization in both literature and literary criticism. Usually offered every fall.

23.499 Honors, Senior Year (3)

Graduate and Advanced Undergraduate Course

23.525 Seminar in Literary History (3) Studies the identity of specific historical traditions; the ways in which such concepts as periodization affect our reading of literature; and how and why we determine the differences between periods, the identity of periods, and the major voices of a given period. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.526 Seminar in Literary Theory (3) Provides a methodological basis for theoretical approaches to literary studies; focuses on critical issues in the study of literature; introduces graduate students and advanced undergraduates to basic questions surrounding the activity and discourse of literary research. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.527 The Teaching of Writing (3) Prepares students to teach classes in college level composition or writing for secondary school students by providing an understanding of contemporary rhetorical theory and methods of teaching. Usually offered every fall. *Note:* Carries graduate seminar credit for students enrolled in the M.A. in Literature and M.F.A. in Creative Writing programs.

23.590 Independent Reading Course in Literature (1-6)

Graduate Courses

Note: 600-level courses in literature generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

23.601 Development of the Novel (3) A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre. Meets with 23.301. Usually offered alternate falls.

23.603 The Short Story (3) Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). Meets with 23.303. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.606 Topics in Folklore (3) Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. Meets with 23.306. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.607 Drama: The Page and the Stage (3) Examples of major dramatic forms (tragedy, comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Meets with 23.307. Usually offered alternate years.

23.608 Modern Drama (3) Modern drama as written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc. Meets with 23.308. Offered irregularly.

23.610 Major Authors (3) Intensive study of the works of one or more important authors. Attention is paid to the evolution of the author's canon, to the effects of (and on) the literary context, to the relationship between works and biography, and to the historical and cultural context of the

writer. Meets with 23.310. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.615 Poetry in the Age of Whitman and Dickinson (3) Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Meets with 23.315. Usually offered alternate falls.

23.616 Nineteenth Century American Novel (3) Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville. Meets with 23.316. Usually offered every year.

23.618 American Literary Realism (3) Characteristics of novels and short fiction in the realist and naturalist modes. Reading includes works by such writers as Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Theodore Dreiser, Edith Wharton, Robert Penn Warren, and Richard Wright. Meets with 23.318. May be repeated for credit within the same term; topic must be different. Usually offered alternate falls.

23.620 Modern American Poetry, 1912-1950 (3) Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be considered at the discretion of the instructor. Meets with 23.320. Usually offered alternate springs.

23.621 Faulkner and the Literature of the South (3) Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, W.A. Percy, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Meets with 23.321. Usually offered alternate springs.

23.622 Contemporary American Literature (3) Topics in American poetry and fiction since World War II. Examination of theories, forms, and strategies of recent fiction; theories, figures, and modes of recent poetry. Meets with 23.322. May be repeated for credit within the same term; topic must be different. Usually offered every year.

23.625 Fitzgerald and Hemingway (3) A study of the fiction of Fitzgerald and Hemingway with emphasis on their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works. Meets with 23.325. Usually offered every year.

23.630 Celtic Myth and Literature (3) Shows the vital importance of literature in all aspects of early Indo-European society: religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myths, as well as major sagas and poems of Ireland and Wales. Meets with 23.330. Usually offered alternate years.

23.631 Chaucer (3) A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature. Meets with 23.331. Usually offered every spring.

23.632 Shakespeare Studies (3) Rotating topics on the works of William Shakespeare, including selected early plays, selected later plays and Shakespeare on film. Meets with 23.332. May be repeated

for credit within the same term; topics must be different. Usually offered every term.

23.634 Literature of the Renaissance (3) Topics in Renaissance literary studies, including Renaissance drama other than Shakespeare (Christopher Marlowe, Ben Jonson, and others), Renaissance poetry with special emphasis on Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. Meets with 23.334. May be repeated for credit within the same term; topic must be different. Usually offered every year.

23.636 Milton (3) Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. Most of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view. Meets with 23.336. Usually offered alternate falls.

23.637 Restoration and Eighteenth Century Literature (3) Major writers and dominant forms in the Restoration and neoclassical tradition, including drama, prose fiction, and poetry, as well as essays and satires. Meets with 23.337. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.639 The Rise of the British Novel (3) A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth century England. Meets with 23.339. Usually offered alternate falls.

23.640 Dickens to Conrad: The Nineteenth Century British Novel (3) Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal verities. Technique is studied, as well as theme and character. Meets with 23.340. Usually offered alternate springs.

23.641 The Romantic Imagination (3) Most offerings focus on central figures in the English Romantic movement (Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats), but some broaden the term "Romantic" to include writers from various periods and countries who see the imagination, rather than discursive reason, as the prime means of apprehending the truth behind phenomena. Meets with 23.341. May be repeated for credit within the same term; topic must be different. Usually offered every year.

23.643 Modern British Literature (3) Topics in the literature of Great Britain in the twentieth century including matters of technique, style, and social themes. Reading and discussion of such representative writers as Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, Hardy, Yeats, Edith Sitwell, Auden, Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. Meets with 23.343. May be repeated for credit within the same term; topic must be different. Usually offered alternate years.

23.645 The Irish Renaissance (3) The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of modern Ireland. Meets with 23.345. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate years.

23.660 Medieval Literature (3) The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic, drama, lyric, and romance in translation. May be repeated for credit, but not within the same term; topic must be different. Meets with 23.360. Usually offered alternate falls.

23.661 Directions in Modern Fiction (3) Fiction that embodies distinctive threads of the twentieth century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on techniques and innovations such as stream of consciousness, point of view, and chronology. Meets with 23.361. Usually offered alternate springs.

23.665 The Political Novel (3) An investigation of how writers engage political issues or the political process in fiction. Includes such works as Henry Adams's *Democracy*, Robert Penn Warren's *All the King's Men*, Emile Zola's *The Debacle*, George Orwell's *1984*, Arthur Koestler's *Darkness at Noon*, and Albert Moravia's *The Fanny Dress Party*. Meets with 23.365. Usually offered alternate years.

23.667 Russian and Soviet Literature (3) An introduction to Russian and Soviet literature in translation from the Middle Ages to the present. Meets with 23.367. Usually offered alternate springs.

23.668 Dostoyevsky and Tolstoy (3) Intensive study of selected works of Dostoyevsky and Tolstoy. Authors are treated individually with some comparison. Meets with 23.368. Usually offered alternate falls.

23.670 A Room of One's Own: Women and Literature (3) Women as writers of and characters in literature. The major issues dealt with are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others. Meets with 23.370. Usually offered every fall.

23.675 Film and Literature (3) Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. Meets with 23.375. May be repeated for credit within the same term; topic must be different. Usually offered alternate years.

23.676 National Cinema (3) Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic movements, historical contexts, and clashing theories and styles. Meets with 23.376. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.677 Popular Film Genres (3) The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Meets with 23.377. May be repeated for credit in the same term; topic must be different. Usually offered every term.

23.678 Major Filmmakers (3) Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini, Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Meets with 23.378. Usually offered every year.

23.680 Independent Filmmakers (3) Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Dehnen, and scores of others destroy the myth that only commercial, feature-length films can be great. Meets with 23.380. Usually offered alternate springs.

23.681 Topics in Jewish Literature and Film (3) Rotating topics explore one theme or period in Jewish literature and/or film. Topics may include Holocaust literature and film, Hebrew literature and Israeli film, Yiddish literature, American Jewish literature and film, and Jewish folktales. May be repeated for credit but not in the same term; topic must be different. Meets with 23.381. Usually offered every spring.

23.690 Independent Study Project in Literature (1-6)

23.691 Graduate Internship (1-6) Practical experience in positions making use of the students' writing and organizational skills. Internships are arranged and supervised by a member of the department; consult department office. Required of M.F.A. candidates; open to other graduate students in the department. May be repeated for credit, but not in the same term. Usually offered every term. *Prerequisite:* graduate standing in the department. Authorization of instructor and department chair required.

23.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

23.700 Advanced Fiction Workshop (3) A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. Graduate students are expected to submit 12,500 words or more. With permission of instructor may be repeated for credit, but not in the same term. Usually offered every term. *Note:* may be taken pass/fail only.

23.701 Advanced Poetry Workshop (3) An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. With permission of instructor may be repeated for credit, but not in the same term. Usually offered every term. *Note:* may be taken pass/fail only.

23.702 Creative Writing: Film Script (3) An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. Meets with 23.402. With permission of instructor may be repeated for credit, but not in the same term. Usually offered every term.

23.705 Seminar on Translation (3) Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Meets with 23.405. Usually offered every spring.

23.710 The Art of Literary Journalism (3) A workshop in which the craft of reviewing books, plays, movies, TV, art, and music is practiced. Speakers who are professionals in each craft are invited to class. Clear expository writing is the aim, tied to established criteria for sound critical approaches in journalism. Usually offered every fall.

23.725 Seminar in Genre (3) Graduate seminar. A study of various kinds of literary expression. Topic changes yearly. Previous topics have been the comic vision, short American fiction, the introspective novel, formal theory of the novel, and tragedy. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.726 Seminar in Selected Authors (3) Graduate seminar. A study of the works of one or two selected writers. Topic changes yearly. Previous topics have been Shakespeare, Keats, Dickens, Whitman, Eliot, Yeats, and Melville. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.750 The Folger Seminar in Renaissance and Eighteenth Century Studies (3) Three graduate seminars are offered each semester. Graduate students at American University are eligible to participate and should consult the Department of Literature. May be taken more than one semester.

23.797 Master's Thesis Seminar (1-6)

History

Undergraduate Courses

29.100 Historians and the Living Past 2:1 (3) Explores the theory and practice of the study of the past. Focuses on the ways in which our thinking is affected by our beliefs about the past; we reconstruct, explain, and evaluate past events; we organize knowledge about the past; and we analyze and evaluate the "lessons of the past." Usually offered every spring.

29.110 Renaissance and Revolutions: Europe, 1400-1815 2:1 (3) The political, economic, and cultural emergence of Europe into world leadership during the period 1400-1815, stressing the problems of building or rebuilding political and social order, including the attempts to spread European civilization to other parts of the world. Usually offered every term.

29.115 Work and Community 2:1 (3) In key historical contexts such as the industrial revolution, the development of New World plantations, and the transformation of farming, this course explores the changing relations between work and community. When have people found the opportunity to exert autonomy and creativity at work? How have evolving work relations influenced household composition, family roles, and cultural traditions? Usually offered every fall.

29.120 Imperialism and Revolution 3:1 (3) The impact of imperialism and revolution since the nineteenth century, particularly on Asia and Latin America. Analyzes theories of imperialism and Western stimulation of nationalism, revolution, racial confrontation, and cultural and demographic transformation. Concentrates particularly on China, Vietnam, and Cuba. Identifies patterns of poverty, instability, and conflict in the "developing" world. Usually offered every term. *Note:* not open to students who have taken 29.105 Twentieth Century World II.

29.200 Italian Civilization 2:2 (3) Introduces students to some of the major aspects of Italian culture and civilization. It includes a survey of the history of the city and a discussion of the major developments in its art and architecture. Other topics of discussion include Italian opera and Italian geography. Course supplemented by study tours to cultural sites and monuments. Offered only in Rome. Usually offered every term. *Prerequisite for General Education credit:* 07.100 or 23.115 or 60.105 or 61.105.

29.201 The Italian Renaissance (3) A survey of Renaissance culture and history. Relations between Italian city-states, the rebirth of classical humanism, the role of the Church and the papacy, the growth of economic institutions, urban development, and political philosophy. Offered only in Rome. Offered irregularly.

29.202 The Ancient World: Greece (3) From Minoan Crete through Alexander the Great. Literary and artistic masterpieces in their historical settings. Emphasis on ancient sources. Usually offered every fall.

29.203 The Ancient World: Rome (3) From the Etruscans through Constantine. The interplay of constitution and empire, and the changing views of ethical conduct. Emphasis on ancient sources. Usually offered every spring.

29.204 Medieval Europe (3) Exploration of the medieval worldview and consideration of the organization of economic and political institutions, the relationship of secular and ecclesiastical authority, and the creation of new social and religious ideals during the millennium that bridges antiquity and modernity. Usually offered alternate springs.

29.205 American Encounters: 1492–1865 2:2 (3) The history of the United States to 1865: the expansion and transplantation of European civilization; the Native American response; the sectional contest over slavery; the birth of the American feminist movement; and the beginnings of the industrial revolution. Usually offered every term. *Prerequisite for General Education credit:* 29.110 or 53.105 or 73.110.

29.206 The United States from Emancipation through World War II, 1865–1945 (3) American history from the end of the Civil War to the end of World War II. Modernization of America and resulting problems. Growth of U.S. power in international affairs. Roots and development of social and political change in America. Usually offered every term. *Note:* not open to students who have taken 29.208 History of the United States II.

29.207 The United States since 1945 (3) Introductory course on the last half century of U.S. history. Growing cultural diversity of the American people and interrelatedness of international and domestic affairs. Impact of the Cold War and challenges to traditional ideologies and political solutions. Usually offered every term.

29.208 African-American History to 1865 (3) Beginning with a review of literature citing pre-Columbian contacts between Africa and the Western hemisphere, this course covers the Atlantic slave trade, the African presence in Colonial America, the American Revolution, nineteenth-century American slavery, the Underground Railroad and the Civil War. The course utilizes historical eyewitness accounts, maps, popular culture, and museum exhibitions to explore the arrival and historical journey of Africans in Colonial, Revolutionary, and antebellum America. Usually offered every fall.

29.209 African-American History 1865 to Present (3) Beginning with a review of the Civil War, this survey chronicles the history of African-Americans to the present time. The course uses historical and literary texts and makes use of cultural resources such as films, recordings, art works, and museum exhibitions to explore the richness of this legacy and its impact on the development of American culture and history. Usually offered every spring.

29.210 Ethnicity in America 4:2 (3) This interdisciplinary course explores how ethnicity has shaped American institutions and behavior

patterns from 1607 to the present. Largely a nation of immigrants, this country reflects the racial, religious, and national characteristics of those who migrated here, whether voluntarily or as slaves. Topics include ethnicity's influence on family, politics, civil rights, and foreign policy. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 65.100 or 76.125.

29.215 Social Forces that Shaped America 2:2 (3) The history of race, class, and gender in the United States from the war for independence to the present. The focus is on how these forces existed and continue to exist as intersecting material realities and contributors to the social attitudes held by residents of the United States. Usually offered every term. *Prerequisite for General Education credit:* 76.150 or 29.115.

29.220 Women in America 4:2 (3) Change and continuity in the experience of American women from the mid-nineteenth century to the present. Social and political movements of special concern to women, including suffrage, birth control, women's liberation, and contemporary antifeminism. A multidisciplinary perspective; both primary and secondary readings. Usually offered every spring. *Prerequisite for General Education credit:* 53.110 or 73.100 or 76.125.

29.221 History of England I (3) Political, social, and cultural development in England to 1689. Parliament, common law, civil war, plague, rebellion, concepts of kingship, and the conflict of church and state. Usually offered every fall.

29.222 History of England II (3) More than any other country, Britain has been regarded as a model for political, economic, and social development. This course examines phenomena that have defined Britain's place in the world, such as the ascension of parliament, the industrial revolution, and the growth of empire, to understand what is unique about Britain and which elements of the British historical experience are more broadly shared. Usually offered every spring.

29.225 Russia: Past and Present 3:2 (3) Russia has been termed a "riddle wrapped in a mystery inside an enigma." An examination of the major influences that have shaped Russia helps solve this mystery. Influences include geography, autocracy, social and multi-ethnic composition, economics, relations with the West, and the ideologies of Orthodoxy, Nationalism, and Marxism. Usually offered every spring. *Prerequisite for General Education credit:* 33.105 or 29.120.

29.230 Early Russian History, 988–1700 (3) The first state, Kiev Rus, the impact of the Tatar Yoke, and the emergence of Muscovite Russia. Topics include the growth of Tsarist autocracy, the enslavement of the peasantry, the role of the Russian Orthodox church, and Russia's relations with the West. Usually offered alternate years.

29.231 Imperial Russia, 1700–1917 (3) Survey of Imperial Russian history with emphasis on the Romanov Tsars, peasantry, growth of industry, cultural developments, emergence of the revolutionary movements, expansion of the state, and foreign policy. Usually offered alternate years.

29.232 Twentieth Century Russia (3) The Tsarist heritage, Russian Marxism, the revolutions of 1917, the civil war, the New Economic Policy, rise of Stalin, the industrialization and collectivization of the 1930s, the Second Patriotic War, death of Stalin, the Khrushchev era, the Brezhnev regime, the end of the USSR, and Soviet culture. Usually offered every fall.

29.235 The West in Crisis, 1900–1945 2:2 (3) Earlier this century the West experienced world wars, the Great Depression, America's New Deal, and communist and Nazi revolutions and dictatorships. This course shows how crises and wars emerged from a conflicted Western heritage, and how communism, fascism, and the New Deal were responses to problems of modernity and progress emanating from different national histories. Usually offered every fall. *Prerequisite for General Education credit:* 29.100 or 29.110 or 53.105.

29.239 Modern Germany since 1848 (3) The revolutions of 1848 failed to unify Germany. Bismarck and the Prussian army succeeded. The new Germany produced Prussian militarism, socialism, youth movements, and the unsuccessful Weimar Republic. Hitler's Germany; World War II; Germany divided and unified. Usually offered alternate years.

29.241 Colonial Latin America (3) Conquest and change in Indian civilization; imperial politics; race and class; Indian labor and the Black legend; imperial economic relations; imperial reform and revolution. Usually offered every fall.

29.242 Latin America since Independence (3) Problems in creating nations; militarism, dictatorship, and democracy; sources of underdevelopment; reform and revolution in the twentieth century. Usually offered every spring.

29.245 Modern Jewish Civilization (3) Surveys Jewish responses to the challenges of modernity. Examines the creation of new Jewish communities in America and Israel, shifts in Jewish political status, and innovations in Jewish religious and intellectual history such as Zionism and Hasidism. Usually offered every spring. *Note:* not open to students who have taken 34.206 Modern Jewish Civilization.

29.248 Transformation of the Middle East (3) The historical development of the modern Middle East, including changes in Muslim society linked to the loss of power and prestige to western influence; the emergence of nationalism; the growth of oil wealth; and the role religion plays in Middle Eastern life. Usually offered every spring.

29.250 Civilization and Modernization: Asia 3:2 (3) Compares the great civilizations of China, India, and Japan; their interaction with the West; and their transformation from the nineteenth century. It thoroughly analyzes modernization and why Asian societies changed so differently; why revolutions wracked China and communism triumphed; how Japan emerged as a premier industrial state; and how India balances tradition, modernity, and democracy. Usually offered every spring. *Prerequisite for General Education credit:* 23.150 or 29.120 or 61.185.

29.260 To Arms: People and Nations at War 3:2 (3) War as an enduring historical phenomenon. The causes of war in the past and how wars have been justified by nations and experienced by persons and peoples. Changing attitudes toward war, alternatives to it, and its possible future. Usually offered every term. *Prerequisite for General Education credit:* 29.120 or 33.105.

29.300 Ancient Studies (3) Topical courses in ancient Greek and Roman history. Meets with 29.600. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.316 Eastern Europe in the Nineteenth Century (3) Nationalism as the driving force in nineteenth-century Eastern Europe. From the Baltic to the Balkans, populations initially under the total domination of the German powers, Russia, and the Ottoman Empire challenged this foreign rule. The course examines the emergence of this special type of nationalism and the fate of the predominantly peasant societies

in the transformation of the social and economic life of the area. Meets with 29.616. Usually offered alternate falls.

29.317 Eastern Europe in the Twentieth Century (3) In the twentieth century the area from the Baltic to the Balkans has experienced two cataclysmic wars, national independence in the interwar period, Soviet domination, and newly acquired independence. The narrative, causes, and costs of Eastern Europe's traumatic history with special emphasis on its diverse ethnic composition. Meets with 29.617. Usually offered alternate springs.

29.318 Nazi Germany (3) The political, social, and economic conditions that made it possible for Hitler to take power. The nature of Nazi rule. Emphasis on World War II and the Holocaust. Meets with 29.618. Usually offered every spring.

29.319 Holocaust (3) Traces the history of anti-Semitism and the development of racism that led to the Holocaust. Examines the historical development of the Final Solution. Considers the variety of responses to Jewish persecution by the Nazi perpetrators, the Jews, and the nations of the world. Meets with 29.619. Usually offered every fall. *Note:* not open to students who have taken 34.312 Holocaust and Modern Man.

29.320 War and Diplomacy: Napoleon to Bismarck (3) Describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismarck's diplomatic system; imperialism; the partition of Africa; rivalries in Asia; Balkan conflicts; and the roots of World War I. Meets with 29.620. Offered irregularly.

29.321 War and Peace: Bismarck to Hitler (3) The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include imperialism and world politics, World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world." Meets with 29.621. Offered irregularly.

29.322 History of London (3) Selective examination of the history of London, emphasizing Westminster and political London, literary London, London in war, and East End revitalization. Class discussions enriched by visits to hallmarks of historical importance and museums. Required of all London Semester students. Usually offered every term.

29.323 Hungarian History and Civilization (4) Analysis of Hungarian history, the constraints of the geopolitical situation in Hungary, and Hungary as a cultural, economical, political, and ideological frontline of Europe. Examination of the roots of nationalism, the Austro-Hungarian Empire, the fateful system of peace treaties after World War I. Analysis of East-West dilemmas. Offered only in Budapest. Usually offered every spring.

29.324 Czech Profile (6) This interdisciplinary course is designed to acquaint the student with the fundamental aspects of the history, politics and culture of the Czechlands through lectures, readings, screenings and field trips. Examines three key areas of challenge to the new democracy: legal, economic and human. Emphasizing the fundamental changes that need to be made so that the Czech Republic can pass from a half-century of totalitarian regimes to a true democracy. Offered only in Prague. Usually offered every fall.

29.325 20th Century Central European History (4) Developments in the politics, economies, cultures, and societies of Central European states during the past century. Topics include: the age of imperialism; the end of the monarchies in Central Europe; politics and culture in the Weimar Republic; the rise of dictatorships and fascism; the Third Reich; World War II and its consequences; the rebuilding of democracy; and the German division. Offered in Prague. Usually offered every term.

29.327 Twentieth Century Europe (3) In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience. Meets with 29.627. Usually offered alternate years.

29.329 European Thought and Ideology (3) Rotating topical and chronological studies, including European communism and European liberalism, and books that shape the modern intellect. Meets with 29.629. Offered irregularly.

29.331 Modern Revolutions (3) The theory, patterns, and practice of twentieth century revolutions, and the revolutionary tradition stemming from the Enlightenment, the French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effects of revolutions and the revolutionary potential of modern industrial societies. Meets with 29.631. Usually offered alternate years.

29.332 Contemporary Historical Studies (3) Rotating topics, including death in history; madness in history; history of sexuality; women in European history. Meets with 29.632. May be repeated for credit in the same term; topic must be different. Usually offered every term.

29.334 Victorian England (3) Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent in Ireland, and the growth of empire. Meets with 29.634. Offered irregularly.

29.336 History of Ireland (3) Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity. Meets with 29.636. Offered irregularly.

29.337 British Studies (3) Rotating topics, including Hanoverian England, Edwardian England, the British working-class, and popular culture in modern Britain. Meets with 29.637. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.340 Latin American Studies (3) Rotating topics, including the diplomatic history of Latin America, Latin American intellectual history, and Latin American feminisms. Meets with 29.640. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.342 History of Chile (4) Emphasis on the independence movement, nineteenth century wars with neighboring countries, growth of the mining and agricultural industries, and the creation of one of Latin America's largest middle classes. Examines the social mores and attitudes of the Chilean people and the roles of the Church, the family, and social institutions. Offered only in Santiago. Usually offered every spring.

29.343 History of Israel (3) Traces the development of modern political Zionism in nineteenth-century Europe; the historical background leading to the establishment of the State of Israel in 1948; and the history of Israel since then, including patterns of Jewish immigration and its relationship to the Arab world. Meets with 29.643. Usually offered every spring.

29.344 Topics in Jewish History (3) Rotating topics in Jewish history exploring one theme, or period, or geographical region of the Jewish past. May include the history of women in Jewish tradition, East European Jewry, the world of the shtetl, American Jewish women, and anti-Semitism. Meets with 29.644. May be repeated for credit but not within the same term; topic must be different. Offered irregularly.

29.345 Russian Studies (3) Rotating topics, including Russian social history, Russian revolutionary tradition, Russian dissidents and dictators, Russia and the West, twentieth century Russian diplomacy, and Russian literature and society. Meets with 29.645. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.347 Asian Studies (3) Topical courses in Asian history, including: China: from the Manchus to Mao, history of Japan and India and the West. Meets with 29.647. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.348 American Culture in the Nuclear Age: Living with the Bomb (3) Examines the evolution of American culture in the nuclear age, with particular emphasis on the ways in which the threat of nuclear war and annihilation have shaped American thought and behavior. Central to this study is an exploration of the history of the nuclear arms race in the context of the politics, culture, and diplomacy of the Cold War. Meets with 29.648. Usually offered alternate falls.

29.350 Colonial America (3) 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society. Meets with 29.650. Usually offered alternate years.

29.351 Era of the Revolution and Constitution (3) The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution. Meets with 29.651. Usually offered alternate years.

29.352 The Era of the New Republic, 1789-1850 (3) The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in 1832-33 and 1848-50. Meets with 29.652. Usually offered alternate years.

29.353 Civil War and Reconstruction (3) Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a narrative of battles and skirmishes. Meets with 29.653. Usually offered alternate years.

29.354 The South since Reconstruction (3) The theme is the South's struggle with the issues of integration, separation, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Meets with 29.654. Usually offered alternate years.

29.355 Emergence of Modern America, 1877–1920 (3) The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and imperialism. Also studied: populism and progressivism. Meets with 29.655. Usually offered alternate years.

29.356 Twentieth Century America (3) Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government, America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics. Meets with 29.656. Offered irregularly.

29.357 America between the Wars, 1919–1941 (3) Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies. Meets with 29.657. Offered irregularly.

29.358 Women in America to 1850 (3) Traces the history of women in America from the sixteenth through the mid-nineteenth century, concentrating on the lived experiences of women as well as on the changing definitions, perceptions, and uses of gender. Particular attention is paid to race, ethnicity, and class, as well as to regional cultures. Additional themes include family, work, and religion. Meets with 29.658. Usually offered alternate falls.

29.359 Women in America, 1850 to Present (3) Traces the history of women in America from the mid-nineteenth through the late twentieth century, emphasizing women's radically different experiences as well as common perceptions and uses of gender. Particular attention is paid to race, ethnicity, and class, with the premise that gender is a historically-specific cultural construct. Meets with 29.659. Usually offered alternate falls.

29.360 U.S. Foreign Relations, 1774–1914 (3) The history of United States diplomacy (and other forms of international relations) from the Revolution to the eve of World War I. Focus on policy making and makers; on such long-term issues such as unilateralism, imperialism, and neutrality; and on economics and ideology. Meets with 29.660. Usually offered alternate falls.

29.361 U.S. Foreign Relations since 1914 (3) The history of United States diplomacy (and other forms of international relations) since the onset of World War I. Focus on policy making and makers; on such long-term issues as isolationism, go-it-alone unilateralism, and interventionism; on ideology, economics, and related domestic politics; and on growing U.S. attention to military and national security matters. Meets with 29.661. Usually offered every spring.

29.364 Twentieth Century United States Response to Revolution (3) Every twentieth century president has been compelled to respond

to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation." Meets with 29.664. Offered irregularly.

29.368 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture (3) Examines the works of great American thinkers from the seventeenth century to the present, including Roger Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are placed in their philosophical, religious, and cultural contexts. Meets with 29.668. Offered irregularly.

29.371 Ideology, Culture, and American Politics (3) How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other. Meets with 29.671. Offered irregularly.

29.372 African American Women: Nineteenth Century American Voice (3) The nineteenth century includes slavery at its most intense manifestation within the United States and the struggle to define freedom in the aftermath of the Civil War. What do the lives and struggles and activism of African American women tell us about them and about this century? What impact did the presence of African American women have on the shaping of the nation's character and culture? Meets with 29.672. Usually offered alternate springs.

29.373 American Jewish History (3) Today American Jewry constitutes the preeminent Diaspora Jewish community. This course traces its historical development by examining the waves of Jewish immigration to the United States and the institutions that American Jews created to sustain their community. Meets with 29.673. Usually offered alternate springs. *Note:* not open to students who have taken 34.330 The American Jewish Community.

29.374 Work and Workers (3) The history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing "work ethic"; labor unions and labor politics; and industrial relations in the post-industrial economy. Meets with 26.674. Offered irregularly.

29.375 The Radical Tradition in the United States (3) The history of the left and radical social movements of workers, farmers, women, and blacks since the 1770s. Meets with 29.675. Offered irregularly.

29.376 Americans and their Environment (3) Focuses on the ideas, politics, and social structures that have influenced Americans in their relationship with their natural environment. Course includes such topics as how Americans have viewed and valued wilderness, their treatment of land, and their use of natural resources in the context of U.S. expansion and industrial development. Meets with 29.676. Offered irregularly.

29.378 History and Society (3) Examines the component parts of societies and the varying ways in which historians analyze social and political changes over time. Designed to prepare History majors for 29.480/481, this seminar emphasizes the development of research, writing, and analytical skills. Usually offered every spring.

29.389 Society and Culture in Modern France, 1789–Present (3) Covers the major issues and problems in the history of modern France. With an emphasis on social and cultural history, it treats topics such as the revolutionary tradition in France, nationalism, peasant life, worker culture, domesticity and family life, urbanism, empire, the World Wars, consumerism, and Americanization. Course materials include memoirs, novels and films. Meets with 29.689. Usually offered alternate springs.

29.390 Independent Reading Course in History (1-6)

29.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

29.480 Major Seminar I (3) Methods and materials of historical research and writing, with emphasis on resources in the Washington area. Students design and outline research topics based in part on the use of primary sources. Required of all history majors. Normally followed by 29.481. Usually offered every fall. *Prerequisite:* senior or second-semester junior standing.

29.481 Major Seminar II (3) Completion of a substantial research paper based in part on the use of primary source materials. Required of all history majors. Usually offered every spring. *Prerequisite:* senior standing and 29.480.

29.490 Independent Study Project in History (1-6)

29.491 Internship (1-6)

Graduate and Advanced Undergraduate Courses

29.500 Studies in History (3) Rotating topics in nineteenth and twentieth century European studies, Russian and Soviet studies, American political, social, and cultural studies, and American diplomatic and military studies. Usually offered every term. *Prerequisite:* advanced undergraduate or graduate standing.

29.590 Independent Reading Course in History (1-6)

Graduate Courses

Note: Courses numbered 29.600 through 29.684 generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

29.600 Ancient Studies (3) Topical courses in ancient Greek and Roman history. Meets with 29.300. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.616 Eastern Europe in the Nineteenth Century (3) Nationalism as the driving force in nineteenth-century Eastern Europe. From the Baltic to the Balkans, populations initially under the total domination of the German powers, Russia, and the Ottoman Empire challenged this foreign rule. The course examines the emergence of this special type of nationalism and the fate of the predominantly peasant societies in the transformation of the social and economic life of the area. Meets with 29.316. Usually offered alternate falls.

29.617 Eastern Europe in the Twentieth Century (3) In the twentieth century the area from the Baltic to the Balkans has experienced two cataclysmic wars, national independence in the interwar period, Soviet domination, and newly acquired independence. The narrative, causes, and costs of Eastern Europe's traumatic history with special emphasis on its diverse ethnic composition. Meets with 29.317. Usually offered alternate springs.

29.618 Nazi Germany (3) The political, social, and economic conditions that made it possible for Hitler to take power. The nature of Nazi rule. Emphasis on World War II and the Holocaust. Meets with 29.318. Usually offered every spring.

29.619 Holocaust (3) Traces the history of anti-Semitism and the development of racism that led to the Holocaust. Examines the historical development of the Final Solution. Considers the variety of responses to Jewish persecution by the Nazi perpetrators, the Jews, and the nations of the world. Meets with 29.319. Usually offered every fall.

29.620 War and Diplomacy: Napoleon to Bismarck (3) Describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismarck's diplomatic system; imperialism; the partition of Africa; rivalries in Asia; Balkan conflicts; and the roots of World War I. Meets with 29.320. Offered irregularly.

29.621 War and Peace: Bismarck to Hitler (3) The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include imperialism and world politics, World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world." Meets with 29.321. Offered irregularly.

29.627 Twentieth Century Europe (3) In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience. Meets with 29.327. Usually offered alternate years.

29.629 European Thought and Ideology (3) Rotating topical and chronological studies, including European communism and European liberalism, and books that shape the modern intellect. Meets with 29.329. Offered irregularly.

29.631 Modern Revolutions (3) The theory, patterns, and practice of twentieth century revolutions, and the revolutionary tradition stemming from the Enlightenment, French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effects of revolutions and the revolutionary potential of modern industrial societies. Meets with 29.331. Usually offered alternate years.

29.632 Contemporary Historical Studies (3) Rotating topics, including death in history, madness in history, history of sexuality, and women in European history. May be repeated for credit in the same term; topic must be different. Meets with 29.332. Offered irregularly.

29.634 Victorian England (3) Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent in Ireland, and the growth of empire. Meets with 29.334. Offered irregularly.

29.636 History of Ireland (3) Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity. Meets with 29.336. Offered irregularly.

29.637 British Studies (3) Rotating topics, including Hanoverian England, Edwardian England, the British working-class experience, and popular culture in modern Britain. Meets with 29.337. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.640 Latin American Studies (3) Rotating topics, including the diplomatic history of Latin America, Latin American intellectual history, and Latin American feminisms. Meets with 29.340. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.643 History of Israel (3) Traces the development of modern political Zionism in nineteenth century Europe; the historical background leading to the establishment of the State of Israel in 1948; and the history of Israel since then, including patterns of Jewish immigration and its relationship to the Arab world. Meets with 29.343. Usually offered every spring.

29.644 Topics in Jewish History (3) Rotating topics in Jewish history exploring one theme, or period, or geographical region of the Jewish past. May include the history of women in Jewish tradition, East European Jewry, the world of the shtetl, American Jewish women, and anti-Semitism. Meets with 29.344. May be repeated for credit but not within the same term; topic must be different. Offered irregularly.

29.645 Russian Studies (3) Rotating topics, including Russian social history, Russian revolutionary tradition, Russian dissidents and dictators, Russia and the West, twentieth century Russian diplomacy, and Russian literature and society. Meets with 29.345. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.647 Asian Studies (3) Topical courses in Asian history, including: China: from the Manchus to Mao, history of Japan, and India and the West. Meets with 29.347. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.648 American Culture in the Nuclear Age: Living with the Bomb (3) Examines the evolution of American culture in the nuclear age, with particular emphasis on the ways in which the threat of nuclear war and annihilation have shaped American thought and behavior. Central to this study is an exploration of the history of the nuclear arms race in the context of the politics, culture, and diplomacy of the Cold War. Meets with 29.348. Usually offered alternate falls.

29.650 Colonial America (3) 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society. Meets with 29.350. Usually offered alternate years.

29.651 Era of the Revolution and Constitution (3) The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution. Meets with 29.351. Usually offered alternate years.

29.652 The Era of the New Republic, 1789–1850 (3) The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in 1832–1833 and 1848–1850. Meets with 29.352. Usually offered alternate years.

29.653 Civil War and Reconstruction (3) Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a narrative of battles and skirmishes. Meets with 29.353. Usually offered alternate years.

29.654 The South since Reconstruction (3) The theme is the South's struggle with the issues of integration, separation, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Meets with 29.354. Usually offered alternate years.

29.655 Emergence of Modern America, 1877–1920 (3) The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and imperialism. Populism and progressivism. Meets with 29.355. Usually offered alternate years.

29.656 Twentieth Century America (3) Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government, America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics. Meets with 29.356. Offered irregularly.

29.657 America between the Wars, 1919–1941 (3) Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies. Meets with 29.357. Offered irregularly.

29.658 Women in America to 1850 (3) Traces the history of women in America from the sixteenth through the mid-nineteenth century, concentrating on the lived experiences of women as well as on the changing definitions, perceptions, and uses of gender. Particular attention is paid to race, ethnicity, and class, as well as to regional cultures. Additional themes include family, work, and religion. Meets with 29.358. Usually offered alternate falls.

29.659 Women in America, 1850 to Present (3) Traces the history of women in America from the mid-nineteenth through the late twentieth century, emphasizing women's radically different experiences as well as common perceptions and uses of gender. Particular attention is paid to race, ethnicity, and class, with the premise that gender is a historically-specific cultural construct. Meets with 29.359. Usually offered alternate falls.

29.660 U.S. Foreign Relations, 1774–1914 (3) The history of United States diplomacy (and other forms of international relations) from the Revolution to the eve of World War I. Focus on policy making and makers; on such long-term issues such as unilateralism, imperialism, and neutrality; and on economics and ideology. Meets with 29.360. Usually offered alternate falls.

29.661 U.S. Foreign Relations since 1914 (3) The history of United States diplomacy (and other forms of international relations) since the onset of World War I. Focus on policy making and makers; on such long-term issues as isolationism, go-it-alone unilateralism, and interventionism; on ideology, economics, and related domestic politics; and on growing U.S. attention to military and national security matters. Meets with 29.361. Usually offered every spring.

29.664 Twentieth Century United States Response to Revolution (3) Every twentieth century president has been compelled to respond to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation." Meets with 29.364. Offered irregularly.

29.668 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture (3) The course examines the works of great American thinkers from the seventeenth century to the present, including Roger Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are placed in their philosophical, religious, and cultural contexts. Meets with 29.368. Offered irregularly.

29.671 Ideology, Culture, and American Politics (3) How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other. Meets with 29.371. Offered irregularly.

29.372 African American Women: Nineteenth Century American Voice (3) The nineteenth century includes slavery at its most intense manifestation within the United States and the struggle to define freedom in the aftermath of the Civil War. What do the lives and struggles and activism of African American women tell us about them and about this century? What impact did the presence of African American women have on the shaping of the nation's character and culture? Meets with 29.372. Usually offered alternate springs.

29.673 American Jewish History (3) Today American Jewry constitutes the preeminent Diaspora Jewish community. This course traces its historical development by examining the waves of Jewish immigration to the United States and the institutions that American Jews created to sustain their community. Meets with 29.373. Usually offered alternate springs.

29.674 Work and Workers (3) The history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing "work ethic"; labor unions and labor politics; and industrial relations in the post-industrial economy. Meets with 29.374. Offered irregularly.

29.675 The Radical Tradition in the United States (3) The history of the left and the radical social movements of workers, farmers,

women, and blacks since the 1770s. Meets with 29.375. Offered irregularly.

29.676 Americans and their Environment (3) Focuses on the ideas, politics, and social structures that have influenced Americans in their relationship with their natural environment. Course includes such topics as how Americans have viewed and valued wilderness, their treatment of land, and their use of natural resources in the context of U.S. expansion and industrial development. Meets with 29.376. Offered irregularly.

29.680 The Origins of Constitutional Government in the United States, 1763–1803 (6) The foundations, principles, framing, adoption, and implementation of the Constitution and Bill of Rights through study of their intellectual, social, political, and cultural origins and context. Emphasizes 18th century roots of U.S. constitutional government. Students study the *Federalist Papers*, Madison's *Notes*, Anti-Federalist writings, other contemporary and primary texts, and current scholarship. Usually offered every summer. *Note:* open only to fellows of the James Madison Memorial Fellowship Foundation.

29.689 Society and Culture in Modern France, 1789–Present (3) Covers the major issues and problems in the history of modern France. With an emphasis on social and cultural history, it treats topics such as the revolutionary tradition in France, nationalism, peasant life, worker culture, domesticity and family life, urbanism, empire, the World Wars, consumerism, and Americanization. Course materials include memoirs, novels and films. Meets with 29.389. Usually offered alternate springs.

29.690 Independent Study Project in History (1–6)

29.691 Internship (1–6)

29.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

29.720 Colloquium in Modern European History 1789–1900 (3) Covers major issues in European history from 1789 to 1900. Integrates political, social, cultural, intellectual, diplomatic, and military subjects and their historiography. The colloquium assumes basic knowledge of events. Usually offered alternate falls.

29.721 Colloquium in Modern European History since 1900 (3) Covers major issues in European history since 1900. Integrates political, social, cultural, intellectual, diplomatic, and military subjects and their historiography. The colloquium assumes basic knowledge of events. Usually offered alternate falls.

29.727 Colloquium in United States History I: to 1865 (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important historiographic disputes and developments in U.S. history to the end of the Civil War. Usually offered every fall.

29.728 Colloquium in United States History II: since 1865 (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important historiographic disputes and developments in U.S. history from 1865 to the present. Usually offered every spring.

29.744 The Historian's Craft (3) Focuses on historical theory, historical methodology, and differences in the various branches of history. Brings together graduate students with various specialties and interests and creates a common base of knowledge and experience. Usually offered every fall.

29.751 Research Seminar in European History (3) Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources. Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

29.752 Research Seminar in United States History (3) Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources. Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

29.797 Master's Thesis Seminar (1-6) Usually offered every term.

29.799 Doctoral Dissertation Seminar (1-12) Usually offered every term.

International Service

Undergraduate Courses

33.105 World Politics 3:1 (3) Patterns of conflict and cooperation in a rapidly-changing world. The primary focus is on concepts and theories which provide a framework for analyzing and understanding contemporary issues. The course examines the behavior of states and other international actors, seeks to explain foreign policies, and identifies the main characteristics of interaction among states. *Note:* not open to students who have taken 33.202 World Politics. Usually offered every term.

33.110 Beyond Sovereignty 3:1 (3) The role of the sovereign state in a world of complex interdependence and the tension between nationalism and the necessity of cooperative global problem solving. Is the state becoming obsolete? Is global policy possible in such areas as environmental protection, resource management, and containment of the destructiveness of modern weapons? Usually offered every term.

33.140 Cross-Cultural Communication 3:1 (3) This course examines the impact of culture on perception, thought patterns, values, and beliefs in order to better understand the behavior of individuals in different cultures. Specific concerns include cross-cultural conflict and negotiation; the relationship between dominant cultures and subcultures; the issues of race, gender, and class in various societies; and the dynamics of cross-cultural adjustment. Usually offered every term.

33.161 Civilizations of Asia (3) Comparative study of the major historical, political, and cultural traditions of Chinese, Japanese, Indian, and Southeast Asian peoples. Usually offered every term.

33.206 Introduction to International Relations Research (3) Introduction to scientific method, data gathering, research design, statistical analysis, and computer applications for international relations and comparative studies research. The course is designed for the beginning student and employs a hands-on approach. The course also develops the analytical skills students need as active consumers of research findings. Applications are geared to research projects to be encountered in subsequent SIS courses. Usually offered every term.

33.210 Human Geography: Peoples, Places, and Cultures 3:2 (3) A topical investigation of the interrelationships between human institutions and their surrounding environment. This course provides a systematic spatial perspective to the interaction between physical,

cultural, ecological, economic, and political systems on both local and global scales. Usually offered every term. *Prerequisite for General Education credit:* 19.110 or 03.110.

33.215 Competition in an Interdependent World 3:2 (3) Economic competitiveness is a major contemporary issue, not only for the major powers, but also for newly industrializing countries and for developing nations. The forces affecting international competition and competitiveness are discussed through an examination of both domestic issues (debt, deficit, innovation, trade, education) and international issues, both political and economic. Usually offered every term. *Prerequisite for General Education credit:* 33.105 or 33.110 or 53.130.

33.220 Confronting Our Differences/Discovering Our Similarities: Conflict Resolution 3:2 (3) This course on conflict resolution examines our interdependent world and fosters greater intercultural awareness and communication. It encourages students to explore their own sense of identity, attitudes and behavioral choices, and how they affect and are affected by differences and similarities encountered with others. The course employs experiential learning activities. Usually offered every fall. *Prerequisite for General Education credit:* 03.110 or 19.110 or 33.110 or 33.140 or 65.110.

33.245 The World of Islam 3:2 (3) This course brings to life the "inner dynamic" of Islamic culture and provides an inside look at the workings of Islamic society—a society seen as a whole with its own characteristic inner force and propellant. It introduces students to original readings illustrating the Islamic paradigm and discusses the complex relationship among reform, renewal, and fundamentalism stemming from this paradigm. Usually offered every fall. *Prerequisite for General Education credit:* 03.110 or 61.185.

33.250 Civilizations of Africa 3:2 (3) By concentrating on African societies and states, ancient and modern, the course aims to create a greater understanding of, and empathy with, the Africans: the diversity, history, culture, accomplishments, and problems of the people and their continent; and the interaction of their culture with Islam and the West. Usually offered every term. *Prerequisite for General Education credit:* 19.110 or 23.150 or 29.120 or 65.110.

33.255 Japan and the United States 3:2 (3) A multidisciplinary introduction to Japan and Japanese life which explores the history, culture, social structure, literature, art, politics, economics, and foreign relations of this important country and invites contrasts with the United States. Usually offered every term. *Prerequisite for General Education credit:* 33.140 or 53.130 or 61.185. *Note:* not open to students who have taken 00.200 or 33.296 Japan and America.

33.258 Contemporary Russia (3) Russia's contemporary political culture and its historical, economic, geographic, and social roots. Usually offered every fall.

33.259 Comparative Change in East Europe (3) A comparative survey of changes occurring in Post-Cold War East Europe including Albania, Bulgaria, Czechoslovakia, Hungary, Poland, Romania, and Yugoslavia. A systematic examination of the emerging new political cultures. Usually offered every spring.

33.264 Contemporary Middle East (3) The Middle East's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to the Arab world. Usually offered every term.

33.265 Contemporary Africa (3) Africa's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to Africa south of the Sahara. Usually offered every term.

33.276 Contemporary Latin America (3) Major political, social, and economic change in Latin America, its foundations, factors accelerating and impeding it, and prospects and trends. Usually offered every term.

33.301 Theories of International Politics (3) Major trends in recent thought, including systematic and behavioral modes of analysis. Problems of explanation and theory building in social sciences with special reference to international studies. Usually offered every fall.

33.308 Introduction to Peace and Conflict Resolution (3) Conflict and violence, as well as cooperation and peaceful change, within and among individuals, cultures, and systems. Effective means for diminishing the level of violence, for increasing the potential for non-exploitative cooperative coexistence, and for collaborative conflict resolution are explored. Usually offered every term.

33.311, 33.312 Santiago Semester I 3:2 (4), II (4) Contemporary Chile: Politics, Economics and Society Part of the World Capitals Semester in Santiago, this two-part seminar focuses on the changing nature of Chile and its move from military to civilian government and the implications of this on policy and society. Topics include: civil-military relations; issues of professional and political armed forces; human rights and the search for justice and reconciliation; political parties and coalitions; economic development; "sharing the wealth;" the Green Movement; the role of women in a changing society; the newly independent media and the search for truth; and the Catholic Church. Usually offered every spring. *Prerequisite for General Education credit:* 65.110.

33.314 Santiago Semester Internship (4) With a strong working knowledge of Spanish, students may enroll in a two-day-per-week internship. Placements include banks, multi-national corporations, research organizations, the media, and educational institutions. Academic oversight of the internship by the resident academic director includes class discussions and written assignments. Usually offered every spring.

33.321 International Law (3) Institutions of international politics, with emphasis on the nature and function of international law. Usually offered every term.

33.322 Human Rights (3) This course examines human rights as a global concern in terms of the following: the role of human rights in foreign policy; cultural and ideological perspectives; regional human rights systems; world resources, hunger, poverty, and refugees; and the effects of modernization and development on human rights. Usually offered every spring.

33.325 International Organization (3) Institutions of international politics, with emphasis on the nature and functions of international organization. Usually offered every term.

33.326 Between Peace and War (3) The politics of conflict, strategies of deterrence, and crisis management. Case studies and simulations are used to examine the perennial issue of state security, with emphasis on the problematic character of military means of achieving security in the nuclear age. Usually offered every term. *Note:* not open to students who have taken 33.120 Between Peace and War.

33.328 Approaches to Peacemaking (3) The theory, history, and methodologies of four approaches to peacemaking: 1) peace through nonviolent action for social change, 2) peace through world order (laws and organizations), 3) peace through collaborative problem solving, and 4) peace through personal and social transformation. Usually offered every fall. *Recommended prerequisite:* 33.308. *Note:* not open to students who have taken 33.519 Special Studies in International Politics: Peace Paradigms.

33.331 An Overview of the European Community (3) The course helps students find their way around the Community of the Twelve and its institutions and to comprehend its historical roots, the variety of its political scenery, the unity of its different cultures, the strength of its economy—in brief to become aware of the European identity. Usually offered every term.

33.332, 33.333 Budapest Seminar I (4), II (4) Hungary, Eastern Europe and Russia in Transformation This two-part seminar emphasizes the changes in Hungary and those taking place in Eastern Europe and Russia. Students meet with politicians and decision-makers to discuss political and cultural diversity in East European countries and examine different paths to liberalization from the reform tradition of Hungary to Solidarity in Poland. The second part of the seminar continues the same format with analysis of the latest events occurring in Eastern Europe. Usually offered every spring.

33.335 Budapest Semester Internship (4) Students may enroll in a two-day-per-week internship for direct involvement in international organizations. Placements include: multinational corporations, political or research institutions, media, and educational organizations. Placements are matched to complement the student's curriculum, major objectives, minor objectives, or serve as an elective internship. Students engage in activities such as observing the organizational structure, researching projects assigned to them, and gaining hands-on experience in an organizational setting. Usually offered every spring.

33.337 International Development (3) An introduction to international development; this course is divided into three sections: development theories, development assistance, and structural adjustment. In each section a variety of approaches are analyzed, and students are expected to be able to discuss the basic assumptions of each approach and the policy prescriptions that would logically follow from these assumptions. Usually offered every term.

33.340 Foundations of International Communication (3) The sociology, psychology, and anthropology relevant to the transmission of ideas, perceptions, and feelings between and within cultures. Communication models, perceptions theories, cultural contacts, technological change, public opinion, propaganda, and logic system. Usually offered every term.

33.341 Intercultural Communication (3) The primary focus of this course is on the dynamics of intercultural communication as it relates to interpersonal interactions across cultural boundaries. The course looks at cultural differences in verbal and nonverbal communication patterns, interpersonal relationship development, and intercultural adaptation processes. Usually offered every term.

33.349 Selected Topics in International Communication (3) Cross-cultural problems of communication, research techniques in international communication, and the role of the media in cross-cultural communication. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.350 Honors Colloquium in International Studies (3) A colloquium experience for University Honors students. Designed to focus on emerging topics in comparative and regional studies, international communication, international development, international economic policy, international peace and conflict resolution, international politics, and United States foreign policy. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* admission to the University Honors Program.

33.355 The Relations of West European Nations (3) World War II diplomacy as it affected Europe's postwar position, and the origins and development of the cold war in Europe. French and West German foreign policy and East-West diplomacy relating to Germany from World War II to the present; European unity with emphasis on the European Community; U.S.-European relations and issues of European security. Usually offered every spring.

33.359 Russia and Central Eurasia in World Affairs (3) Analysis of relations between the Commonwealth of Independent States and its border areas. The historical and current place of Russia and the Commonwealth in world affairs. Usually offered every spring.

33.364 Modern Islam (3) The nineteenth century Islamic reform movements in the Middle East and North Africa and the twentieth century neofundamentalist militant movements. The conflict between these movements and the forms of secular nationalism that developed during the same period. The impact of the Islamic movements on societies oriented toward Westernization and nationalism. Usually offered every spring. *Prerequisite:* 33.164 Islamic Civilization or 33.245.

33.365 Arab-Israeli Relations (3) A survey of Arab-Israeli relations from their origins to the present. Includes an account of Zionism and Palestinian nationalism, the history of the British mandate, the Arab-Israeli wars, the involvement of external powers, and the quest for peace. The emphasis is on conflict resolution. Designed as a sequel to 33.264, although this course is not a prerequisite. Usually offered every spring. *Prerequisite:* 33.264 recommended.

33.366 Asian Power Rivalries (3) International politics from Asian perspectives, with particular attention to complex relationships between China, the Soviet Union, India, and Japan. Usually offered every fall.

33.371 Germany in Europe and the World (3) Part of the World Capitals Semester in Berlin, this course examines the changing role of Germany regionally and internationally since the end of World War II, with special emphasis on post-1989 developments. It analyzes the factors that shape Germany's foreign options and obligations, including domestic politics, geo-politics, history, political culture, intergovernmental and transnational linkages in Europe and beyond. Usually offered every fall.

33.372 Brussels Seminar 3:2 (4) Part of the World Capitals Semester in Brussels, this course covers the entire spectrum of United States-West European political, economic, and security relations. Topics include NATO, United States-West European economic and trade relations, the Commonwealth of Independent States and problems of European security, Europe and the Third World, West European demographics, social and industrial relations, and employment policies. Usually offered every term. *Prerequisite for General Education credit:* 33.105 or 33.110 or 33.140 or 53.130.

33.373 Madrid Seminar 3:2 (4) Part of the World Capitals Semester in Madrid, this course covers the politics, economy, culture, society, and foreign relations of Spain. Topics include cultural norms of the Spanish family, the history of Spanish culture and thought, the impact of the European Common Market, Spain's foreign policy, the role of the monarchy in Spanish political life, regionalism and its significance today, the roles of major political parties, and the capacity for long-range development planning. Usually offered every spring. *Prerequisite:* second semester sophomore standing or above and two years of college Spanish, and, for General Education credit: 33.110 or 53.130.

33.374 Buenos Aires Seminar 3:2 (4) Part of the World Capitals Semester in Buenos Aires, this course covers the politics, economy, culture, society, and foreign relations of Argentina. Selected topics include the political process and the party system, industrialization, inflation, and debt, and Argentina as a middle power in the international system. Usually offered every fall. *Prerequisite for General Education credit:* 33.140 or 53.130 or 65.110.

33.375 Berlin Seminar: Contemporary Germany: Politics and Economy 3:2 (3) Part of the World Capitals Semester in Berlin, this course provides students with an overview of the economy and politics of the Federal Republic since unification. Topics include political culture, state institutions, the party system, fiscal and monetary policy, the welfare state, the job market, and banking and finance. *Prerequisite for General Education credit:* 33.105 or 33.110 or 53.130.

33.376 Brussels Semester Internship (4) May be repeated for credit in the same term; topic may be the same. Usually offered every term.

33.377 Madrid Semester Internship (4) Internships of 16 to 20 hours each week in one of several multinational and international organizations based in Madrid under the supervision of the resident professor. Usually offered every spring. *Prerequisite:* second semester sophomore standing or above and two years of college Spanish.

33.378 Buenos Aires Internship (4) Usually offered every fall.

33.381 Foreign Policies of the Great Powers (3) Analysis of the historical evolution and contemporary development of the foreign policies of the United States and the former Soviet Union, including the role of China in the foreign policy of each. Emphasis is on the interaction of the policies and behavior of the major powers. Usually offered every fall.

33.382 The Analysis of United States Foreign Policy (3) Approaches to the study of American foreign policy processes and decision making; the role of the president, the bureaucracy, the Congress, and public opinion. Attention to U.S. relations with select countries and regions. Usually offered every term.

33.383 United States-Russian/Eurasian Security Relations (3) Addresses the relations between the United States and Russia, the Soviet Union and its successor states, focusing on the security aspects of those relations. The course primarily covers the evolution of security relations from the Bolshevik Revolution to the present. Usually offered every term.

33.384 American Defense and Security Policy (3) United States national security policy formulation, including organizational politics, NSC systems, state and defense departments, the intelligence community, defense budgeting, weapons acquisition, and executive-legislative relations. Usually offered every spring.

33.385 United States Foreign Economic Policy (3) Major factors and issues in U.S. international economic relations in terms of trade-offs between political and economic priorities; emphasis on U.S. international trade, finance, development, energy, and investment policies. Usually offered every term. *Prerequisite:* 19.100.

33.388 International Environmental Politics (3) Focuses on the political dimensions of transboundary ecological problems. Examines contemporary political responses to global environmental challenges and facilitates creative formulations of theory-based analyses of these challenges. Experiential approaches are also encouraged and emphasized. Usually offered every spring. *Prerequisite:* 33.105 or 33.110 or 53.130.

33.389 Selected Topics in Policy Analysis (3) Analysis of topics in public policy, with special attention to diplomatic, security, economic, or environmental policies. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.390 Independent Reading Course in International Relations (1-6)

33.391 Internship in International Affairs (1-12) Direct involvement in policy-making through participation in a government agency or nongovernmental organization. Credit varies depending on the nature of internship and the number of hours involved. *Prerequisite:* permission of coordinator of internships.

33.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

33.400 Senior Seminar in International Relations (3) A capstone experience for SIS majors. Designed to facilitate integration of knowledge in the international relations field. Development and oral defense of significant research projects. Focus of seminar varies by section. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* senior standing in SIS or permission of instructor.

33.401 Senior Seminar in Language and Area Studies (3) A capstone experience for Language and Area Studies majors. Designed to facilitate integration of knowledge in the language and area studies field. Development and oral defense of significant research projects. Usually offered alternate springs.

33.461 AU-Ritsumeikan Exchange (1-6) Course constitutes key element in American University–Ritsumeikan University (in Kyoto, Japan) exchange program. Consult SIS Undergraduate Advising Office. May be repeated for credit within the same term; content/topic may be the same. Usually offered every term.

33.462 AU-Korea University Exchange (1-6) Course constitutes key element in American University–Korea University (in Seoul, Korea) exchange program. Consult SIS Undergraduate Advising Office. May be repeated for credit within the same term; content/topic may be the same. Usually offered every term.

33.465 Contemporary International Trade and Investment Policies (3) The major contemporary foreign trade and international investment policy issues confronting the United States. Geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 33.385 or 19.311.

33.466 Contemporary International Monetary, Finance, and Energy Policies (3) The major contemporary monetary, financial, and energy policy issues confronting the international economic order and the United States. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.385 or 19.311.

33.471, 33.472 International Environment and Development Seminar I (4), II (4) Focusing on policy and the relationship of the models of development and environmental problems, the seminar links the world of the policymaker with that of the academic theorist. The theme of the seminar is: What do we mean by development, and how do we get there while preserving the planet? Usually offered every fall and spring. *Prerequisite:* permission of Washington Semester Program; must be taken concurrently.

33.473 International Environment and Development Practicum (4) This field experience during the final three weeks of the semester begins with seminars in the capital city with government officials, scholars from local universities, nongovernmental groups and foreign assistance organizations. Briefings continue as students travel throughout the country with their group, examining innovative programs now under way to create sustainable development alternatives. Students travel to Kenya in the fall semester and to Costa Rica in the spring semester. Usually offered every fall and spring. *Prerequisite:* permission of Washington Semester Program.

33.474 International Environment and Development Internship (4) While in Washington students engage in a two-day-per-week internship providing direct experience in an environmental and/or development organization. Students choose internships from U.S. Agency for International Development, TransAfrica, Environmental Protection Agency, Greenpeace USA, etc. Usually offered every fall and spring. *Prerequisite:* permission of Washington Semester Program.

33.486 Peace and Conflict Resolution Seminar I (4) Explores conflict, peacemaking, and conflict resolution from various perspectives and prepares students with conflict resolution and change skills to participate actively and creatively in building a global society based on peace, justice, and nonviolent resolution of conflicts. Usually offered every fall and spring. *Prerequisite:* permission of department.

33.487 Peace and Conflict Resolution Seminar II (4) Continuation of 33.486. Usually offered every term. *Prerequisite:* permission of department.

33.488 Peace and Conflict Resolution Research Project (4) Students select a topic related to peace and conflict resolution, and write an in-depth research paper of approximately 35 pages. Research skills, analysis, written skills, and a certain degree of originality are emphasized. Usually offered every term. *Prerequisite:* permission of department.

33.489 Peace and Conflict Resolution Internship (4) This course provides students with first-hand experience as members of the intern staff of organizations directly involved in a variety of peacemaking and social change efforts. Students choose their own internships based on individual interests. Usually offered every term. *Prerequisite:* permission of department.

33.490 Independent Study Project in International Relations (1-6)

33.491 International Politics and Foreign Policy Seminar I (4) Innovative approach which permits a group of students, guided by a team of professors, to devote an entire semester to United States foreign policy formulation and implementation. Systematic study of foreign policy emphasizes qualitative analysis and employs quantitative methods as appropriate. Students participate in seminars, workshops, on-site observation, and meet with foreign policy makers and influencers from government, media, and other private-sector organizations. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

33.492 International Politics and Foreign Policy Seminar II (4) Continuation of 33.491. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

33.493 International Politics and Foreign Policy Research Project (4) Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

33.497 International Politics and Foreign Policy Internship (4) Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

33.498 Senior Honors (3) Usually offered every term.

Graduate and Advanced Undergraduate Courses

33.501 Special Institute in International Affairs (3-6) Selected special topics dealing with cutting edge issues in international affairs. May be repeated for credit in the same term; topic must be different. Usually offered every summer.

33.504 Multinational Corporations (3) The structure and functions of multinational corporations in the global system and their developmental effect on other actors. Usually offered every term.

33.513 Computer Applications in International Relations Research (3) The use of the Statistical Package for the Social Sciences (SPSS) and multivariate statistical methods in international relations research. Usually offered every term. *Prerequisite:* 33.206 or 33.600.

33.518 Legacy of World War II Diplomacy (3) An examination of the issues spawned in international relations by World War II which affect the last half of the twentieth century. Included are the advent of the nuclear age, rise of the superpowers, emergence of the Third World, establishment of the United Nations and other international or regional organizations, origins of the Cold War, and the recurrence of nationalism. The course identifies contemporary danger spots which are traceable to World War II diplomacy. Usually offered alternate falls.

33.519 Special Studies in International Politics (3) Rotating topics, including: international economic policy coordination, emerging capital markets, international environmental policy, political risk analysis, international relations of Japan, preventive diplomacy, United States and Cuba, and nonviolence. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.520 Survey of International Law and Organization (3) Graduate introduction to the nature and functions of international law and the interstate system within which it operates. Emphasis on recent trends and future capabilities. For graduate students who have no previous courses in international law or international organization. Usually offered every fall.

33.530 Colloquium on the Common Market (3) Taught in French. Topics include institutional development, financing of community activities, community policies, external relations, community law, and business case studies. Specific issues within each area rotate regularly every semester over a two-year cycle. Usually offered every term.

33.533 Seminar on the European Community's Current Programs (3) Current community policies and their relevance to the achievement of a closer European union. course topics include internal market, financing community activities, common agricultural policy (CAP), regional policy, Lomé Convention, transport, energy, research and technology, social policy, structural environment, eco-

nomic and monetary union, and community law. Usually offered every spring.

33.536 Special Topics in International Development (3) Rotating topics include: governance, democracy, and development; population, migration, and development; etc. May be repeated for credit in the same term, topic must be different. Offered irregularly.

33.537 Special Topics in Development Management (3) Rotating topics include: managing decentralization; urban development; small scale enterprise; etc. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 33.337, 33.637, or equivalent.

33.539 Comparative Development Strategies (3) The objectives of this course are to deepen students' understanding of a selection of models used in development and to provide students with an understanding of the contrasting models used to develop economic and political policies. Usually offered every fall. *Note:* not open to students who have taken 33.662 National Development Models.

33.551 Politics and Society in Europe since 1945 (3) The political systems, values, and sociological changes in European society since 1945; an analysis of European nations and regions and of different levels of development and economic organization. Usually offered every fall.

33.553 Central and East Europe in Transition (3) A comparative approach exploring the circumstances leading to and the consequences of the transitions in central and eastern Europe. Historical, economic, and political perspectives are emphasized. Assessment of relative successes and failures of the transitions and prospects for the region's future. Usually offered every term.

33.557 Foreign Policy Formulation in West European States (3) Conditioning factors, instrumentalities, political parties, pressure groups and organizations, and public media and opinion. Usually offered every spring.

33.558 Authoritarianism and Democracy in Russia (3) A comparative analytical approach to the study of Russia (and the Soviet Union). Emphasis is on the interdependence of Russian and Soviet traditions, political leadership, center-periphery relations, Russian governments, and the social dynamics of political change. Usually offered every fall.

33.559 Selected Topics in Cross-National Studies (3) Rotating topics, usually with a geographical or regional focus, include: fundamentalist movements in Islam; political economy of African crisis; theories of nationalism; etc. May be repeated for credit in the same term; topic must be different. Offered irregularly.

33.561 Modern China (3) Emergence of China as a world power, with emphasis on economic, political, and social trends in the People's Republic of China today. Usually offered alternate springs.

33.562 Modern Japan (3) Continuity and change in postwar Japanese society as contrasted with the prewar society. Usually offered alternate falls.

33.565 Japanese-U.S. Economic Relations (3) An examination of the economic and cultural factors contributing to the frictions and imbalances in the trading relationship of the world's two largest economies. The sources of divergent trade performances and dissimilar trade policies in Japan and the United States are analyzed, as well as efforts to restore bilateral harmony and equilibrium. Usually offered every spring. *Prerequisite:* six hours of basic economics.

33.567, 33.568 International Relations of East Asia I (3), II (3) Recent historical and contemporary interstate relations in East Asia, and the place of East Asia in world affairs. Usually offered every term.

33.569 International Relations of Southeast Asia (3) Recent and contemporary interstate relations in Southeast Asia and the place of Southeast Asia in world affairs. Usually offered alternate springs.

33.571, 33.572 International Relations of the Middle East I (3), II (3) Recent historical and contemporary interstate relations in the Middle East and North Africa and the place of the Middle East in world affairs. Usually offered every term.

33.573 International Relations of Africa I (3) Recent historical and contemporary interstate relations in Africa and the place of Africa in world affairs. Usually offered every term. *Prerequisite:* 33.250 or 33.265 or graduate standing.

33.574 International Relations of Africa II (3) Recent historical and contemporary interstate relations in Africa and the place of Africa in world affairs. Usually offered every term.

33.577, 33.578 International Relations of Latin America I (3), II (3) Recent and contemporary interstate relations in Latin America and the place of Latin America in world affairs. Usually offered every term.

33.579 Selected Regional and Country Studies (3) Comparative perspective on contemporary international relations with regional or area focus. Brings theory to bear on the study of the area. How do major theoretical constructs contribute to understanding the region? Conversely, how does knowledge of the topic area extend the range of generalizations in the social sciences? May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* appropriate regional course at the 500 or 600 level or equivalent.

33.581 Schools of Thought in Contemporary United States Foreign Policy (3) Seminar examining disparate normative assumptions about United States foreign policy. A wide spectrum of viewpoints is examined, and students explore their own values as they relate to foreign policy. Usually offered every spring.

33.582 International Organizations and Latin American Development (3-6) Drawing on Washington-area resources relating to Latin America and to inter-American affairs (e.g., OAS, Inter-American Development Bank, USIA, AID, and the Latin American diplomatic community), the course examines selected major issues in inter-American relations with a focus on the role of international and U.S. agencies and on foreign policies of individual Latin American nations. Usually offered every summer.

33.583 United States in World Affairs (3) The role of the United States in world affairs and in contemporary regional issues. Focuses on U.S. interests in the Middle East, Europe, southern Africa, Central America and East Asia. Usually offered every fall.

33.585 Contemporary United Nations (3) Examines how new United Nations responsibilities will shape the emerging global system, how major groups of countries will affect the UN, and how particular cases highlight the relationships among countries in the UN system. Cases cover issues of crisis management, peace-keeping and developments in the Global South. Usually offered every spring.

33.588 International Security and Arms Control (3) The strengths and weaknesses of arms control. Examination of the military strategy-policy relationship, deterrence theory, strategic posture and doctrine, and terrorism. Usually offered every spring.

33.589 Selected Topics in Comparative Policy Analysis (3) Rotating topics in comparative and foreign policy arenas and development strategies, usually with a geographical regional focus. May be repeated for credit in the same term; topic must be different. Usually offered every fall.

33.590 Independent Reading Course in International Relations (1-6)

33.593 Humphrey Fellows Seminar (3) A special seminar for Hubert Humphrey Fellows. Topics vary with the semester. Usually offered every term. May be repeated for credit, but not within the same term; topic must be different. *Prerequisite:* open to Humphrey Fellows; other students admitted by permission of instructor.

Graduate Courses

33.600 Introduction to Quantitative International Relations (3) Introduction to research design, quantitative measurement, statistical analysis, and computer use for international relations research. Usually offered every term.

33.601 Theory in International Relations (3) Interdisciplinary perspectives; major paradigms of thought; definition of boundaries of the field; normative and analytic goals and definition of priorities. Usually offered every fall.

33.604 Masterworks of International Relations (3) A literature course divided into topics chronologically ordered by the date of works initiating streams of discourse. Representative later works are also covered. Students are required to keep a working journal of their reading notes for the instructor's inspection. Usually offered every spring.

33.605 Theory of Cooperative Global Politics (3) This course examines the historical movement toward stability and order in the international political system with emphasis on comparing such concepts as nation-state/one world; national interest/human interest; rights of states/human rights; sovereignty/interdependence; war/colaborative conflict resolution. The concepts that underlie the competitive model of world politics—individualism, rationality, and self-interest—are analyzed within the global political context. Usually offered every fall.

33.607 Peace Paradigms (3) The history and development of approaches to peace, with particular emphasis upon the following: peace through coercive power, peace through nonviolence, peace through world order, and peace through personal and community transformation. Usually offered every spring.

33.608 Educating for Global Citizenship (3-6) This six-week institute for elementary and secondary teachers examines the dynamics of conflict and peacemaking through a case study approach to current conflicts. Review and development of curriculum materials, and instruction in conflict resolution skills provide the context for transferring the themes of the institute to classroom situations. Usually offered every summer. *Prerequisite:* permission of instructor.

33.609 Conflict Analysis and Resolution: Theory and Practice (3) Explores conflict resolution as a field of inquiry and research; perspectives, theories, and assumptions underlying conflict analysis and conflict resolution; contending approaches to conflict resolution training and practice. A case analysis approach is used to examine the role of contemporary issues in conflict situations. Usually offered every fall. *Prerequisite:* 33.607 and 33.610.

33.610 Theory of Conflict, Violence and War (3) Survey of the theoretical and empirical literature on the causes and conditions of conflict, particularly conflict which is expressed violently at all levels. Topics explored include analyzing violence at the individual level, defining violence (physical, economic, social, cultural, systematic) and why societies support violence. Usually offered every spring. *Prerequisite:* 33.607.

33.611 International Negotiation (3) Surveys the theoretical literature on the history and practice of international negotiations. Contending approaches to international negotiations, their basic assumptions and methodologies, and their application to current conflict situations. The role of culture and cross-cultural communication in international negotiation is explored. The course also includes skills development in international negotiation. Usually offered every spring. *Prerequisite:* 33.607, 33.609, or 33.519 Special Studies in International Politics: Applied Conflict Resolution, or permission of instructor.

33.612 Research Seminar in Peace and Conflict Resolution (3) Integrative seminar to test theories and assumptions raised in contemporary venues of peace and conflict resolution research. Seminar focuses on peace and conflict resolution research as distinct from research into war and violent conflict. Theoretical and methodological approaches to peace and conflict resolution studies are examined in detail. Usually offered every spring.

33.615 Fundamentals of United States Foreign Economic Policy (3) Analysis of the principal American policies of international trade, finance, development, energy, and investment. Issues are examined in the context of foreign and domestic economic and political considerations. Usually offered every fall. *Prerequisite:* 19.100, 19.311, or equivalent.

33.621 International Law and the Legal Order (3) The nature and functions of international law in interstate relations, with emphasis on recent trends in scholarship and on cases, documents, and other original materials. Usually offered every spring.

33.625 World Organization and World Order (3) The origins, principles, organization, activities, and circumstances of the League of Nations, United Nations, and allied models of future world order. Theoretical aspects are emphasized. Usually offered every spring.

33.630 Economic Policies of the European Community (3) The course addresses students interested in increasing their knowledge of the European Community. It deals primarily with the development of the Community, its institutions, various common policies, external relations, and laws in the larger context of international business. Usually offered every fall.

33.635 Advanced Topics in Development Management (3) Rotating topics include: rural development; managing economic and political reform; etc. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 33.337, 33.637, or equivalent.

33.636 Micropolitics of Development (3) People and their choices in developmental change. Some persons work within credit unions, cooperatives, parties, interest groups, or alone without much group support. Others rely on patrons, prayers, bribes, threats, or combinations of all these resources for survival. An understanding of survival struggles and strategies is the objective of this course. Usually offered every term.

33.637 International Development (3) Alternative theories and definitions of development as expressed in the major international insti-

tutions (aid agencies, cartels, multinational corporations) concerned with the transfer of resources. Considers the problems of the "change-agent" in working for development and examines the major development issues. Usually offered every term.

33.638 Selected Topics in International Development Skills (1) Introduction to a specific technique or approach currently used in the international development field, focusing on project planning, community development, action research, or another similar area. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 33.637, 19.560, or equivalent.

33.640 International Communication (3) International communication as a field of inquiry and research: perspectives, theories, and assumptions underlying communication between nations and peoples; international flow of information and its implications in relations among nations and cultures. Usually offered every term.

33.641 Psychological and Cultural Bases of International Politics (3) Phenomena and problems of international relations in terms of underlying cultural and psychological forces. Theory of international relations from the point of view of the behavioral sciences. Usually offered every spring. *Prerequisite:* 33.340 or 33.640.

33.642 Cross-Cultural Communication (3) Contribution of relevant social and behavioral sciences to the study of intercultural and cross-cultural communication. Analysis of culture as communication and value-systems as essential in communication. Usually offered alternate springs. *Prerequisite:* 33.640 or equivalent.

33.643 Political Economy of International Communication (3) Examines the political and economic foundations, structures, and processes of contemporary international and global communication. Usually offered every other term. *Prerequisite:* 33.640.

33.644 Communication and Social and Economic Development (3) Examination of economic, communication, and development theories, the role of information and communication technology in social and economic development; transfer of technology and uses of communication in economic growth, social change, and national integration. Usually offered every spring. *Prerequisite:* 33.640.

33.645 International and Comparative Communication Policies (3) Examination of communication systems and policies at national, regional, and international levels; the role of international organizations in the formation and implementation of communication policies; political economy of information and transborder data flow. Usually offered every fall. *Prerequisite:* 33.640.

33.646 Information Systems and International Communication (3) Illustrates the major concepts and techniques that comprise systems perspectives. Particular attention to the application of systems concepts and related techniques to the flow of information in and across organizations set in a complex, interdependent and changing world. Case studies and action research complement class reading and discussion. Usually offered every spring.

33.648 Women and Development (3) Provides the student with a critical evaluation of the main theoretical structures of feminism as applied to an analysis of the multiple facets of women's lives in the developing world. Explores the diverse socioeconomic, cultural, religious and political factors that affect women including the impact of development itself. Usually offered every spring. *Prerequisite:* 33.637 or equivalent.

33.649 Environment and Development (3) An overview of the newly emerging multi-disciplinary field of environment and development. Focusing on resource depletion in the Third World, the course is structured around three sets of inquiries: 1) various views of what constitutes the problem, 2) key debates over the root causes, and 3) local, national, and international governmental and nongovernmental policy responses. Usually offered every spring. *Prerequisite:* 33.637 or equivalent.

33.650 World Economic and Sustainable Development (3) This course is a political economic inquiry into world economic activity—trade, investment, aid and debt—and how changes in each over the post–World War II period have influenced the sustainability of development choices for countries in the Third world. Usually offered every fall. *Prerequisite:* 33.637 or equivalent.

33.651 Managing Economic Policy Reform (3) Addresses design and management of macroeconomic stabilization, privatization, social safety net, trade policy, financial sector, and public sector reform in developing countries. Also considers the politics of reform. *Prerequisite:* 19.603 or equivalent with permission of instructor.

33.655 International Relations of Western Europe (3) World War II diplomacy affecting postwar Europe and the origins and development of the cold war. European security; West German foreign policy and East–West diplomacy relating to Germany from World War II to the present; and French foreign policy through the Gaullist period. Usually offered every fall.

33.656 Contemporary International Relations of Western Europe (3) Theoretical approaches to the study of European integration. Evolution of West European unity since World War II with emphasis on the European Community, United States–West European relations since the 1960s, and contemporary issues of European security. Usually offered every spring.

33.659 International Relations of Russia and Central Eurasia (3) The study of Soviet and Commonwealth foreign policies within the analytical perspectives of international relations theory. Historical and contemporary analysis of interstate and inter-regional relations in areas of Russian and Soviet influence. Usually offered every fall.

33.664 Islam and Nationalism: Middle East (3) Lectures and discussions on secular nationalism and Islamic militancy in the Middle East and North Africa during the past one hundred years; the origins and characteristics of the movements; the conflict between them and its impact on the politics and international relations of the area; the emergence of neofundamentalist Islamic movements. Usually offered every spring.

33.665 Contemporary International Trade and Investment Policies (3) The major contemporary foreign trade and international investment policy issues confronting the United States. Geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 19.611 or 33.615.

33.666 Contemporary International Monetary, Finance, and Energy Policies (3) The major contemporary monetary, financial, and energy policy issues confronting the international economic order and the United States. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.615 or 19.611.

33.667 Global Political Economy (3) This course is concerned with the scope of political economy. The focus is on the origins of the modern global political economy and its institutional structure. It

examines contemporary issues in political economy, using the division of labor as an organizing concept, and explores the prospects for global restructuring at the turn of the century. Usually offered every spring.

33.670 Theory and Method in Cross-National Studies (3) Theoretical and methodological approaches to cross-national studies and their historical development; implications for contemporary research in comparative political and policy analysis; policy relevance of contending approaches (e.g., conflict versus consensus). Usually offered every fall.

33.671 Seminar in Comparative Analysis (3) An examination within a historical framework of the interrelationships between civil society and the modern state, placing in perspective issues related to civil rights and the social and political dynamics which underscore this process. Usually offered every fall.

33.672 Theories of Comparative and International Studies (3) Unlike the dominant tradition which divides comparative and international politics into separate areas of inquiry, this course bridges these two fields. Topics covered include the rise of the modern state and its relation to historical capitalism and the nation; interactions between the state and the market; democratization and civil society; social movements; and global culture. Usually offered every term.

33.673 Comparative Political Economy (3) Political economy is examined by comparing countries and regions. Considers the possibilities and limits of transposing models of state and society from one region to another. Focus is on the division of labor, class and identity, the state, industrialization strategies, technological policy, cultural formation, and identity. Usually offered every term.

33.674 Integrated Seminar in Comparative and Regional Studies (3) Designed to improve the student's ability to think conceptually about socio-economic, political, and cultural problems in his or her region of specialization as well as to broaden the student's knowledge of other regions. Topics vary from term to term. Usually offered every term. *Prerequisite:* all core requirements in Comparative and Regional Studies except 6 hours of research and writing.

33.678 Globalization: Power, Production and Culture (3) Global transformation slices across former divisions of labor, fundamentally penetrates domestic society, and geographically reorganizes economic activities. This course addresses the underlying causes of globalization and whether it is intensifying and deepening historical tendencies, or is world society entering a new era in the relationship among the state, economy, and culture? Usually offered every fall.

33.682 United States Foreign Policy (3) Analysis of American foreign and defense policy processes, including the role of the President, Congress, Departments of State and Defense, the intelligence community, and other actors/factors affecting policy formulation and implementation. Usually offered every fall.

33.683 Congress and United States Foreign Policy (3) An examination of the role that the U.S. Congress plays in shaping foreign policy. Emphasis is given to contemporary congressional behavior, through case studies, with attention also devoted to constitutional factors and historical patterns. Usually offered every fall.

33.684 National Security Policy (3) Policy making, implementation, and control; civilian-military, military-industrial, and executive-legislative relations; and the interaction of security policies of the United States and other powers. Usually offered every fall.

33.685 United States-Russian/Eurasian Security Relations (3) An intensive reading, research, and discussion seminar focusing on U.S. relations with Russia, its predecessor, and other Eurasian states as an interaction, stressing the security aspects of that interaction. The primary emphasis is on security relations in the postwar period, 1945 to the present. Two subthemes of the seminar are the role of strategic culture and the dynamics of threats. Usually offered alternate falls.

33.686 Proseminar in International Affairs I (3) This course is the first in a two course sequence, designed especially for Master of International Service degree candidates. Providing an overview of new developments in international affairs, it connects theory to practice at the executive level in international affairs. Usually offered every fall.

33.687 Proseminar in International Affairs II (3) This course is the second in a two course sequence, designed especially for Master of International Service degree candidates. Focusing on professional strategies for coping with change and professional skills enhancement, the seminar also includes a capstone action research project. Usually offered every spring.

33.689 Seminar in Policy Analysis (3) Graduate research seminars on rotating topics, including: analysis of Russian and Soviet policy-making, domestic and foreign. Approaches to foreign policy analysis. Cognitive mapping in international relations. Social indicators in foreign policy research. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

33.690 Independent Study Project in International Studies (1-6)

33.691 Internship in International Affairs (1-12) Direct involvement in policy making through participation in a governmental agency or nongovernmental organization. Credit varies depending on nature of internship and number of hours involved. Usually offered every term. *Prerequisite:* permission of SIS internship coordinator.

33.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

33.693 Practicum: Action Research in Development Management (1-6) Action research, supervised by a faculty member, involves development management degree candidates in analyzing an organization and its interaction with its environment and clientele. Special attention is given to improving organizational responsiveness to community needs. *Prerequisite:* 19.560, 33.636, 33.637, 54.610, and 54.614.

33.694 AU-Ritsumeikan Exchange (1-6) Course constitutes key element in AU-Ritsumeikan Exchange program. Consult SIS Graduate Office. May be repeated for credit in the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of SIS Dean's Office.

33.697 AU-Korea University Exchange (1-6) Course constitutes key element in AU-Korea University Exchange program. Consult SIS Graduate Office. May be repeated for credit in the same term; topic may be the same. Usually offered every term.

33.695 Research Seminar in International Communication (3) Role and trends of research in international communication; examination of content, strategy and methods; critical analysis of varying schools of thought. Usually offered every spring and summer. *Prerequisite:* 33.640.

33.701 Classical Theory in International Relations (3) A historical/developmental survey of international relations, beginning with the post-World War I era. Professor and students examine the prop-

osition that the literature of this relatively new field reflects and indeed grows out of the changing patterns of world politics at the time of writing. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program in International Relations.

33.702 Social Theory in Comparative and International Perspective (3) Theoretical and methodological approaches to comparative and cross-national studies, with emphasis on the systemic context for political activity and how this is manifested in public and international policy. Literature drawn from several social sciences, with attention to policy and political systems in different types of countries. Usually offered every spring. *Prerequisite:* admission to the Ph.D. program in International Relations.

33.703 Contemporary Theories of International Relations (3) This course critically reviews developments in international relations theory over the last decade. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program in International Relations.

33.704 Conduct of Inquiry in International Relations (3) Survey and analysis of alternative theories of knowledge in the social sciences. Epistemological norms of modern empiricism. The critique of empiricism. Linguistic analysis, phenomenology, ethnomethodology, hermeneutics, critical theory, structuralism, and post-structuralism. Application to the study of international relations. Usually offered every spring. *Prerequisite:* admission to the Ph.D. program in International Relations.

33.710 Colloquium in International Relations (3) Intensive dialogue between faculty members and doctoral students in the international relations field. M.A. students may be admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the SIS Graduate Office. Preparation for comprehensive examination. Offered irregularly.

33.715 Seminar on Advanced Research Design (3) An overview of social science research methodology issues guiding students in the design of their own research projects. Usually offered every spring. *Prerequisite:* matriculation in doctoral program.

33.725 Seminar on Law in International Affairs (3) The history and theory of international law, major areas of change in contemporary law, and the role of the practitioner. Research in students' special fields. Usually offered every spring. *Prerequisite:* School of International Service: permission of instructor; Washington College of Law: admission to J.D./M.A. program and second- or third-year standing.

33.729 Research Seminar in International Law and Organization (3) Research seminar organized according to need around a substantive problem focus, a technique focus, or a more general focus. Preparation for comprehensive examination. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall. *Prerequisite:* 33.621 or 33.625.

33.740 Colloquium in International Communication (3) Intensive dialogue between faculty members and doctoral students in international communication. Master's students preparing to take their comprehensive examinations are admitted with permission. Usually offered every spring.

33.794 Substantial Research Paper with Coursework (3) May meet with any 500-, 600-, or 700-level course in the School of International Service. May be repeated for credit in the same term; subject of paper must be different. Usually offered every term. *Prerequisite:* consult department; register using title of research paper as second line title.

33.795 Master's Research Requirement (I-6) Usually offered every term. May be repeated for credit within the same term; topic must be different. *Prerequisite:* consult department.

33.797 Master's Thesis Supervision (I-6)

33.799 Dissertation Seminar (I-12) Members of the SIS faculty, invited scholars, and doctoral students who have readied dissertation proposals make formal scholarly presentations. Usually offered every term. *Prerequisite:* matriculation as a doctoral student in residence.

Jewish Studies

Note: for additional Jewish Studies courses, see also History (29.xxx), Literature (23.xxx), and Religion (61.xxx)

Undergraduate Courses

34.205 Ancient and Medieval Jewish Civilization 2:2 (3) Examines the independent Jewish states that flourished in Palestine, the rise of the most important Jewish communities outside the ancient Jewish homeland, and the foreign influences that shaped not only the political life of the Jews but also their internal organization and their creativity. Usually offered every fall. *Prerequisite for General Education credit:* 07.100 or 23.115 or 60.105 or 73.110.

34.210 Voices of Modern Jewish Literature 2:2 (3) Explores a variety of literary works analyzing the historical experience of modern Jewish communities in Europe, as well as the United States and Israel, emphasizing how migration, racism, industrialization, and political change affected these Jews and their Judaism. Usually offered every spring. *Prerequisite for General Education credit:* 29.115 or 61.105 or 76.150.

34.320 Topics in Jewish Culture (3) Rotating courses on historical and contemporary aspects of the Jewish heritage, such as Judaism and Hellenism; Judaism and Islam; art, dance, and drama as expressions of the Jewish spirit; and Jewish education, content, and method. May be repeated for credit but not in the same term; topic must be different.

34.390 Independent Reading Course in Jewish Studies (I-6)

34.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. Usually offered every term.

34.481 Senior Thesis in Jewish Studies I (3) Jewish studies majors prepare a thesis on a topic selected after consultation with the student's adviser. Usually offered every fall. *Prerequisite:* all other Jewish studies program major requirements.

34.482 Senior Thesis in Jewish Studies II (3) Completion of senior thesis on a topic selected after consultation with the student's adviser. Usually offered every spring. *Prerequisite:* 34.481.

34.490 Independent Study Project in Jewish Studies (I-6)

34.491 Internship in Jewish Studies (I-6) The internship provides the student an opportunity to enrich organizational skills and experience. The student earns university credit for the work and contributes needed services to the host agency, such as community relations, religious, Israel-centered, or social welfare agencies. The amount of credit depends on the number of hours of work. Usually offered every term.

Graduate Courses

34.590 Independent Reading Course in Jewish Studies (I-6)

34.690 Independent Study Project in Jewish Studies (I-6)

Language and Foreign Studies

GENERAL EDUCATION COURSES

37.200 Russia and the United States 3:2 (3) A comparative study of the two superpowers, Russia and the United States, through an interdisciplinary approach with emphasis on the major similarities and differences. The course draws topics primarily from international studies, political science, history, literature, and the arts. Taught in English. Usually offered every fall. *Prerequisite for General Education credit:* 33.105 or 53.130.

37.210 Latin America: History, Art, Literature 3:2 (3) Latin America's history through the words of the writer, the brush of the painter, the pen of the cartoonist, and the lens of the photographer. Analysis of how the Latin (Spanish, Portuguese and Islamic), African, and indigenous cultural heritages have combined to produce a unique culture. Taught in English. Usually offered every term. *Prerequisite for General Education credit:* 03.110 or 23.150 or 33.140.

37.320 The Modernist Explosion: Culture and Ideology in Europe 2:2 (3) Studies the interrelationship of cultural forces in Europe in the first third of the twentieth century, with special emphasis on the German Weimar republic, 1918–1933, as a case example of the development of the modernist movement. Using an interdisciplinary approach, the course examines primary works of literature, visual art, music, and film (in English translation) in the context of political history. Usually offered every spring. *Prerequisite for General Education credit:* 07.100 or 29.110 or 53.105.

MAJOR SEMINAR (LAS)

37.401 Senior Seminar in Language and Area Studies (3) Designed to integrate coursework and research in language and area of concentration. Development of significant research project in conjunction with participation in interactive seminar. Usually offered alternate springs.

COURSES BY LANGUAGE

Note: Students with three years of high school preparation in a language normally register for 200-level courses. Students with four years of high school preparation normally register for 300-level courses.

ARABIC

36.102 Arabic Elementary I (4) An introduction to modern standard Arabic used in formal situations, meetings, instruction in schools and universities around the Arab world, media, press, etc. Begins with the phonology and script of the language, then concentrates on the important syntactic structures of the language as well as its morphology. Students are expected, at the end of Elementary I, to be able to express simple ideas, and to understand simple material including frequent structural patterns and vocabulary. Usually offered every fall.

36.103 Arabic Elementary II (4) Continuation of 36.102. Usually offered every spring. *Prerequisite:* 36.102 or permission of instructor.

36.202 Arabic Intermediate I (4) Further practice in conversation; acquisition of new grammatical structures and vocabulary. Content includes cultural topics related to customs, history, geography and literature. Usually offered every fall. *Prerequisite:* 36.103

36.203 Arabic Intermediate II (4) Continuation of 36.202. Usually offered every spring. *Prerequisite:* 36.202

CHINESE

36.112 Chinese, Intensive Elementary I (5) Understanding and speaking conversational Chinese and reading simple texts. Emphasis on audio-lingual skills. Common speech situations. Pronunciation drills, structural pattern drills within the limits of a basic vocabulary, and exercises in the Chinese writing system constitute the main part of classroom and laboratory activities. Usually offered every fall.

36.113 Chinese, Intensive Elementary II (5) Continuation of 36.112. *Prerequisite:* 36.112 or equivalent. Usually offered every spring.

36.212 Chinese, Intensive Intermediate I (5) Further practice in conversation; acquisition of new grammatical structures, vocabulary, and characters. Content includes cultural topics related to customs, history, geography, and literature. Usually offered every fall. *Prerequisite:* 36.113 or permission of instructor.

36.213 Chinese, Intensive Intermediate II (5) Continuation of 36.212. Usually offered every spring. *Prerequisite:* 36.212 or permission of instructor.

CZECH

36.162 Introduction to the Czech Language (I) This two-week intensive course in Czech is an introduction to the language for the World Capitals Semester in Prague, and coincides with the students' immersion in Czech and acculturation. Offered only in Prague. Usually offered every fall.

36.164 Elementary Czech Language I (3) This course follows 36.162. Students expand their basic knowledge of Czech and explore the areas of conjugations, declensions, verb tenses, the use of pronouns, adverbs, and elementary translation. Offered only in Prague. Usually offered every fall. *Prerequisite:* 36.162 or equivalent.

FRENCH: Undergraduate Courses

36.122 French, Elementary I (4) Emphasis on audio-lingual skills. Drills on the main features of French structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall and summer.

36.123 French, Elementary II (4) Continuation of 36.122. Usually offered every spring and summer. *Prerequisite:* 36.122 or equivalent.

36.222 French, Intermediate I (4) Audio-lingual skills as well as reading and writing. Text material is focused on French cultural patterns. Usually offered every fall. *Prerequisite:* 36.123 or equivalent.

36.223 French, Intermediate II (4) Continuation of 36.222. Usually offered every spring. *Prerequisite:* 36.222 or equivalent.

37.321 Written and Spoken Business French (3) Part of the International Marketing study abroad program in Brussels, the aim of this course is to review and enhance audio-lingual and reading-writing skills, and familiarize students with common business terminology and formatting of written documents (business letters, memos, etc.) Course readings are drawn from a variety of relatively short and straightforward business-related texts. The course also maximizes the advantage of the French-speaking environment Brussels provides. Usually offered every spring.

37.322 Advanced French I (3) Perfection of audio-lingual and reading-writing skills. Vocabulary expansion through a variety of classroom activities. Study of idioms, clichés, and style as used in spoken and written French. Designed for students who have completed the intermediate level

and wish to continue to develop their practical skills in French. Usually offered every fall. *Prerequisite:* 36.223 or equivalent.

37.323 Advanced French II (3) Continuation of 37.322. Usually offered every spring. *Prerequisite:* 37.322 or equivalent.

37.324 Civilisation Française I (3) France from the Middle Ages to the French Revolution—a survey of political, social, and economic developments, emphasizing the differences between the *culture des élites* and *culture du peuple*, as seen through primary sources. Meets with 37.624. Usually offered alternate falls. *Prerequisite:* three years of college French. *Note:* not open to students who have taken 37.428.

37.325 Civilisation Française II (3) France in the nineteenth and twentieth centuries. Study of the *nouveau régime*, the effects of the French revolutions on the social classes and their mental structures. Emphasis on the difference between the *culture des élites* and *culture du peuple*. Meets with 37.625. Usually offered alternate springs. *Prerequisite:* three years of college French. *Note:* not open to students who have taken 37.429.

37.326 French Topics (3) Courses taught in French on these topics: political life, the role of women, French politics, France today, French cinema, advanced French translation, etc. May be repeated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.626. *Prerequisite:* 37.323 or permission of instructor.

37.328 French Translation: Concepts and Practice (3) An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. Meets with 37.628. *Prerequisite:* 37.323 or permission of instructor.

37.329 Le Français Commercial (3) Advanced language course focusing on business expressions and terminology intended to prepare students for the *Certificat Pratique* examination offered by the Paris Chamber of Commerce. Emphasis on written and oral skills. Students learn to comprehend texts related to commercial topics (advertising, agriculture, banking, insurance, etc.) and to write business letters and reports in French. Usually offered every spring. *Prerequisite:* 37.323. *Note:* not open to students who have taken 37.423 *Le Français des Affaires*.

37.385 Paris: Civilization and Culture (4) Lectures and discussions focus on art, architecture and literature in Paris, using the physical city as a "text" to further understand French culture. Field trips supplement classroom sessions. Reading and writing assignments integrate classroom and field trips. Taught in English. Offered only in Paris. Does not carry credit toward the French major. Usually offered every spring.

37.420 Les Registres du Français (3) An introduction to the cultural levels of the French language—colloquial French, standard French, formal French, familiar French—and to the differences between spoken and written French. Also included: study of literary prose, versification, dialects, and aspects of selected technical vocabularies. Designed for students who wish to understand the intricacies of the French language. Usually offered alternate falls. *Prerequisite:* 37.326 and sophomore standing.

37.491 Internship: French (1-6) Supervised work-study program. Usually offered every term. *Prerequisite:* permission of instructor.

FRENCH: Graduate and Advanced Undergraduate Courses

37.520 *Style et Syntaxe du Français* (3) This course is designed to teach students to analyze literary texts and comment on them with clarity and insight. It also attunes students to the nuances of the written language and teaches them the intricacies of composition writing. Usually offered alternate falls. *Prerequisite:* admission to M.A. in French Studies or permission of instructor.

37.521 *Le Classicisme Français* (3) Study of major literary works of seventeenth century France in light of the socio-cultural system that they reflect. Focus on formal and sociocontextual methods of reading. All works are studied primarily as texts and the art of their construction and expression is closely examined. Lectures provide introductory and supplemental information. Usually offered alternate springs.

37.522 *Le Siècle des Lumières* (3) Attitudes and ideas of the age of enlightenment as reflected in Montesquieu, Diderot, the Encyclopedists, Voltaire, and Rousseau. Offered irregularly.

37.523 *Le Romantisme* (3) Development of the romantic movement in early nineteenth century French literature. Analysis of sentiments of romanticists. Offered irregularly.

37.524 *Le Réalisme* (3) Nineteenth century French literature from the decline of romanticism to the turn of the century. Periods of expression known as realism, naturalism, and symbolism. Offered irregularly.

37.525 *Littérature Contemporaine* (3) Topic changes each semester; emphasis on genre, movement, or major writers. May be repeated for credit; topic must be different. Usually offered every year.

37.526 *Les Grands Auteurs Français I* (3) Study of major French literary works from the middle ages through the eighteenth century. All works are studied as texts and the art of their construction and expression is closely examined. Attention is paid to the conflict between individual and social forces, the metamorphosis of form and content, and the evolution of language. Offered irregularly.

37.527 *Les Grands Auteurs Français II* (3) A study of the major French writers of the nineteenth and twentieth centuries. Readings are drawn from representative works of the various authors to show the emergence, development, and transformations of literary form. Special emphasis is placed on literary analysis and critical writing. Offered irregularly.

37.529 *Colloquium on France* (3) Lectures, reports, and critical discussions on selected topics pertaining to France's current role in international politics. Cultural trends and economic problems. Taught in French. May be repeated for credit in the same term; topic must be different. Usually offered alternate years.

FRENCH: Graduate Courses

36.020 *French Reading for Research* (0) For graduate students who have studied French but require a refresher course stressing grammar review, vocabulary building and translation. Successful completion of the course with a grade of B or better may satisfy the graduate tool of research requirement; students should consult with their academic adviser. Usually offered every term. *Prerequisite:* two years of high school or one year of college French. *Note:* This non-credit course is open only to American University graduate students.

37.624 *Civilisation Française I* (3) France from the Middle Ages to the French Revolution—a survey of political, social, and economic developments, emphasizing the differences between the *culture des élites* and *culture du peuple*, as seen through primary sources. Meets with 37.324. Usually offered alternate falls. *Prerequisite:* three years of college French.

37.625 *Civilisation Française II* (3) France in the nineteenth and twentieth centuries. Study of the *nouveau régime*, the effects of the French revolutions on the social classes and their mental structures. Emphasis on the difference between the *culture des élites* and *culture du peuple*. Meets with 37.325. Usually offered alternate springs. *Prerequisite:* three years of college French.

37.626 *French Topics* (3) Courses taught in French on these topics: political life, the role of women, French politics, France today, French cinema, advanced French translation, etc. Meets with 37.326. May be repeated for credit in the same term; topic must be different. *Prerequisite:* 37.323 or permission of instructor.

37.628 *French Translation: Concepts and Practice* (3) An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Meets with 37.328. Usually offered every fall.

37.702 *Seminar in French Studies* (3) Reports and critical discussion of research papers on French literature. Different topics each semester. May be repeated for credit; topic must be different. Usually offered every term.

GERMAN: Undergraduate Courses

36.132 *German, Elementary I* (4) Emphasis on audio-lingual skills. Drills on the main features of German structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.133 *German, Elementary II* (4) Continuation of 36.132. Usually offered every spring. *Prerequisite:* 36.132 or equivalent.

36.134 *German, Intensive Elementary I* (5) Emphasis on audio-lingual skills and mastering the main features of German structure. Acquisition of basic vocabulary. Inductive presentation of grammar. Reading and writing as auxiliary skills. Five hours of classroom instruction, supplemented with laboratory work (audio and visual tapes). Usually offered every fall.

36.135 *German, Intensive Elementary II* (5) Continuation of 36.134. Usually offered every spring.

36.136 *Intensive German Language Level I* (6) Part of the World Capitals Semester in Berlin, this course provides emphasis on vocabulary acquisition, basic grammatical structure, development of correct pronunciation, intensive exercise of oral skills in situations, and reading basic texts. Usually offered every fall.

36.232 *German, Intermediate I* (4) Audio-lingual skills as well as reading and writing. Text material is focused on German cultural patterns. Usually offered every fall. *Prerequisite:* 36.133.

36.233 *German, Intermediate II* (4) Continuation of 36.232. Usually offered every spring. *Prerequisite:* 36.232.

36.236 *Intensive German Language Level II* (6) Part of the World Capitals Semester in Berlin, this course provides refinement of basic skills, learning of more complex grammatical structure and syntax,

expansion of vocabulary, and intensive practice of conversation and writing in a cultural context. Usually offered every fall. *Prerequisite:* 36.133, 36.135, 36.136, or equivalent.

37.332 German Conversation and Composition I (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 36.233 or permission of instructor.

37.333 German Conversation and Composition II (3) Continuation of 37.332. Usually offered every spring. *Prerequisite:* 37.332.

37.335 Intensive German for Business (6) Part of the World Capitals Semester in Berlin, this course provides an intensive introduction into the world of business German. Insights are given into the areas of advertising, retailing, wholesale, banking, German business correspondence, code of behavior in the German-speaking business world, and business terminology. Usually offered every fall. *Prerequisite:* 36.233, 37.236 or equivalent.

37.336 German Topics (3) Courses taught in German on one of these topics: customs and manners, lands and regions, east and west, survey of arts, etc. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* 37.233 or permission of instructor.

37.337 History and Culture of Berlin (3) Part of the World Capitals Semester in Berlin, this course traces the history and culture of Berlin from its role as capital and cultural showpiece of imperial Germany in 1871 to its renewed role as capital of a unified Germany after the Berlin Wall. To study Berlin in Berlin enables students to relive modern German history and to experience its unique blend of elite and popular culture. Field trips to cultural landmarks of the city form the backdrop of this course. *Note:* Taught in English; German language is helpful but not a prerequisite. Usually offered every fall.

37.338 Introduction to German Translation (3) An introduction to the methods, techniques, and problems involved in translating from German into English. Emphasis on translating general material, with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered alternate falls. *Prerequisite:* 37.333 or permission of instructor.

37.431 Modern German Drama (3) Survey of German dramatic literature from the eighteenth century to the present. Readings of plays in German, as well as secondary and critical readings which place the plays in the political and social context in which they were created. Taught in German. Usually offered alternate springs. *Prerequisite:* 37.333 or permission of instructor.

37.432 Studies in German Film (3) Introduction to the history, theory, and critical analysis of the German cinema arts. Weekly film screenings provide a framework for the study and criticism of German film, from its beginnings through the New German Cinema. Usually offered alternate falls. *Prerequisite:* 37.333 or permission of instructor.

37.433 German Lyric Poetry (3) Survey of German lyric poetry, as well as selected examples of longer poetic works, as expressions of the German cultural identity throughout history. The focus of the course is interdisciplinary, encompassing poetry's relationship to music, visual art, historiography, religion and politics. Usually offered alternate falls. *Prerequisite:* 37.333 or permission of instructor.

37.436 Intensive Advanced German (6) Part of the World Capitals Semester in Berlin, this course provides practice of speaking and writing

on an advanced level. Emphasis on familiarity with various communicative genres with the goal of advanced proficiency in a variety of styles. Regular classroom discussions and writing exercises, as well as practice in language use in an authentic setting. Usually offered every fall. *Prerequisite:* 36.236 or 37.332 or equivalent.

37.438 German Civilization I (3) A survey of the cultural development of German-speaking Europe from its beginnings to the Napoleonic era. Works of literature, art and music are studied as the basis for discussion of German cultural history. Taught in German. Usually offered alternate falls. *Prerequisite:* 37.333 or permission of instructor.

37.439 German Civilization II (3) A continuation of 37.438, covering the nineteenth and twentieth centuries. Taught in German. Usually offered alternate springs. *Prerequisite:* 37.333 or permission of instructor.

37.491 Internship: German (3-6) Supervised work-study program. Usually offered every term. *Prerequisite:* three years of college German or equivalent.

HEBREW

36.116 Hebrew, Elementary Modern I (3) Usually offered every fall.

36.117 Hebrew, Elementary Modern II (3) Usually offered every spring. *Prerequisite:* 36.116 or equivalent.

36.216 Hebrew, Intermediate Modern I (3) Usually offered every fall. *Prerequisite:* 36.117 or equivalent.

36.217 Hebrew, Intermediate Modern II (3) Usually offered every spring. *Prerequisite:* 36.216 or equivalent.

HINDI

36.110 Hindi, Elementary I (3) Usually offered alternate falls.

36.111 Hindi, Elementary II (3) Usually offered alternate springs. *Prerequisite:* 36.110 or equivalent.

ITALIAN

36.118 Italian, Elementary I (3) Emphasis on mastering structure. Basics of phonology and morphology. Situational approach. Development of good pronunciation and speech patterns. Two and a half hours per week of class instruction supplemented by individual language and laboratory work. Usually offered every fall and summer.

36.119 Italian, Elementary II (3) Continuation of 36.118. Usually offered every spring and summer.

36.218 Italian, Intermediate I (3) Refinement of basic language skills. Expansion of vocabulary in a cultural context. Development of communicative skills. Reading and writing as auxiliary skills. Usually offered every fall. *Prerequisite:* 36.119 or equivalent.

36.219 Italian, Intermediate II (3) Continuation of 36.218. Usually offered every spring. *Prerequisite:* 36.218 or equivalent.

37.318 Italian Conversation and Composition I (3) Focus on the use of Italian as it is spoken and written today. Topics include, political themes, business, literature, art, music, history, and geography. The dual emphasis on oral and written skills through class discussions, compositions, and grammar exercises, helps students better comprehend reading materials and develop more confidence in using the spoken language. Usually offered every fall. *Prerequisite:* 36.219 or permission of instructor.

37.319 Italian Conversation and Composition II (3) Continuation of 37.318. Usually offered every spring. *Prerequisite:* 37.318 or permission of instructor.

JAPANESE

36.114 Japanese, Intensive Elementary I (5) Understanding and speaking conversational Japanese and reading simple texts. Emphasis on audio-lingual skills in common speech situations. Pronunciation drills, structural pattern drills within the limits of basic vocabulary, and exercises in Japanese writing system. Usually offered every fall.

36.115 Japanese, Intensive Elementary II (5) A continuation of 36.114. Usually offered every spring. *Prerequisite:* 36.114 or permission of instructor.

36.214 Japanese, Intensive Intermediate I (5) A continuation of skills development in understanding, speaking, reading, and writing Japanese. Usually offered every fall. *Prerequisite:* 36.115 or equivalent.

36.215 Japanese, Intensive Intermediate II (5) A continuation of 36.214. Skills development in understanding, speaking, reading, and writing Japanese. Usually offered every spring. *Prerequisite:* 36.214 or equivalent.

37.314 Advanced Japanese I (3) Overall skills in Japanese are enhanced by extensive reading, oral work, and field trips. The materials studied are selected from current newspapers, magazines, literature, and films. Knowledge of Chinese characters is enlarged. Conducted entirely in Japanese. Usually offered every fall. *Prerequisite:* 36.215 or permission of instructor.

37.315 Advanced Japanese II (3) Continuation of 37.314. Usually offered every spring. *Prerequisite:* 37.314 or permission of instructor.

RUSSIAN: Undergraduate Courses

36.144 Russian, Intensive Elementary I (5) Emphasis on audio-lingual skills and mastering the main features of Russian structure. Exercises in the Russian writing system, phonology, and reading drills. Acquisition of basic vocabulary. Inductive presentation of grammar. Five hours of classroom instruction, supplemented with laboratory work (audio and video tapes). Usually offered every fall.

36.145 Russian, Intensive Elementary II (5) Continuation of 36.144. Usually offered every spring. *Prerequisite:* 36.144 or equivalent.

36.244 Russian, Intensive Intermediate I (5) Refinement of basic language skills. Expansion of vocabulary in a cultural context, review of grammatical structures, and development of communicative skills. Reading and writing as auxiliary skills. Five hours of classroom instruction, supplemented with laboratory work (audio and video tapes). Usually offered every fall. *Prerequisite:* 36.145 or equivalent. *Note:* not open to students who have taken 36.246.

36.245 Russian, Intensive Intermediate II (5) Continuation of 36.244. Usually offered every spring. *Prerequisite:* 36.244 or equivalent. *Note:* not open to students who have taken 36.247.

36.246 Russian, Intensive Intermediate I (6) Part of the World Capitals Semester in Moscow. Refinement of basic language skills, expansion of vocabulary in a cultural context, review of grammatical structures, and development of communicative skills. Reading and writing as auxiliary skills. Usually offered every fall. *Note:* not open to students who have taken 36.244.

36.247 Russian, Intensive Intermediate II (6) Continuation of 36.246. Offered only in Moscow. Usually offered every fall. *Note:* not open to students who have taken 36.245.

37.342 Russian Conversation and Composition I (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure, vocabulary expansion through extensive reading, and problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 36.243 or equivalent. *Note:* not open to students who have taken 37.344.

37.343 Russian Conversation and Composition II (3) Continuation of 37.342. Usually offered every spring. *Prerequisite:* 37.342 or equivalent. *Note:* not open to students who have taken 37.345.

37.344 Russian Conversation and Composition I (6) Part of the World Capitals Semester in Moscow. Perfection of audio-lingual and reading-writing skills, review of grammatical structure, and vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Note:* not open to students who have taken 37.342.

37.345 Russian Conversation and Composition II (6) Continuation of 37.344. Offered in Moscow. Usually offered every fall. *Note:* not open to students who have taken 37.343.

37.347 Introduction to Russian Literature (3) A systematic survey of the historical development of Russian literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* two years of college Russian or equivalent.

37.440 Russian Civilization I (3) From the destruction of the pagan idols in 988 to the "Death of God" in roughly 1890, Russian sensibilities carved a new face on what would, as the Russian Empire, cover one-sixth of the earth's landmass. This course examines the history of art and culture in Russia through these 900 years, using literary and memoiristic texts, music, and art reproductions. Usually offered alternate springs. *Prerequisite:* three years of college Russian or permission of instructor.

37.441 Russian Media and Political Translation (3) Reading and translating selected sociopolitical texts and current periodical publications. Vocabulary expansion through study of word formation. Study of idioms, terms, and syntactic patterns. May be repeated for credit, but not in the same term; topic must be different. Meets with 37.641. Usually offered every fall. *Prerequisite:* three years of college Russian or equivalent or permission of instructor. *Note:* not open to students who have taken 37.341.

37.443 Russian Business Translation (3) Development of business translation skills and an understanding of the socio-economic and political aspects of the business world. Study of language, terminology, stylistic constructions and related cross-cultural issues. Translation from Russian to English. Emphasis on translation methods, techniques and problems. Course covers areas such as finance, marketing, banking, taxation, trade and economics. May be repeated for credit, but not in the same term; topic must be different. Meets with 37.643. Usually offered alternate falls. *Prerequisite:* three years college Russian or permission of instructor.

37.491 Internship: Russian (2-3) Supervised research and study based on comparison of selected readings and first-hand travel experience. Usually taken in conjunction with group travel to Russia. *Prerequisite:* permission of instructor and dean or department chair.

RUSSIAN: Graduate and Advanced Undergraduate Courses

37.501 Seminar on Russia (6) Part of the World Capitals Semester in Moscow. Features presentations from Moscow's academic, business, and other sectors and provides overview of the complex problems facing Russia and the states of the former Soviet Union. Lectures provide perspectives from Soviet and Russian literature, art, music, journalism, and current media materials. Taught in English, but guest presentations and media materials are frequently in Russian. Usually offered every fall. *Prerequisite:* Two years of college Russian and appropriate reading and listening skills in Russian.

37.540 Russian Structure (3) Contemporary and historical analysis of the phonology, morphology, and syntax of Russian. Offered irregularly. *Prerequisite:* permission of instructor.

37.543 Russian Classics (3) Topic changes each semester; emphasis on life and works of major writers. May be repeated for credit in the same term; topic must be different. Usually offered every term.

37.545 Russian Drama (3) Topic changes each semester; emphasis on a major period or works of one outstanding Russian playwright. May be repeated for credit in the same term; topic must be different. Offered irregularly.

37.546 Russian Advanced Grammar and Composition I (3) A systematic grammar review course for those who have had at least three years of Russian. There is a written assignment for every class, either a translation or an essay. Weekly quizzes test knowledge of grammatical constructions, vocabulary, and idioms. Usually offered every fall. *Prerequisite:* three years of college Russian.

37.547 Russian Advanced Grammar and Composition II (3) A continuation of 37.546. Usually offered every spring. *Prerequisite:* 37.546 or permission of instructor.

RUSSIAN: Graduate Courses

37.641 Advanced Russian Media and Political Translation (3) Development and perfection of translation skills. Emphasis on contemporary political culture. Translation of materials from current Russian press; vocabulary building; review of grammar and stylistics; demonstrations; classroom exercises; weekly home assignments; and weekly quiz. Individual translation project. May be repeated for credit but not in the same term; topic must be different. Meets with 37.441. Usually offered every fall.

37.643 Russian Business Translation (3) Development of business translation skills and an understanding of the socio-economic and political aspects of the business world. Study of language, terminology, stylistic constructions and related cross-cultural issues. Translation from Russian to English. Emphasis on translation methods, techniques and problems. Course covers areas such as finance, marketing, banking, taxation, trade and economics. May be repeated for credit, but not in the same term; topic must be different. Meets with 37.643. Usually offered alternate falls. *Prerequisite:* three years college Russian or permission of instructor.

37.703 Seminar in Russian Literature (3) Reports and critical discussion of research papers on Russian literature. May be repeated for credit; topic must be different. Usually offered alternate falls.

37.704 Seminar in Russian Studies (3) Reports and critical discussion of research papers on Russian studies. May be repeated for credit; topic must be different. Usually offered alternate falls.

SPANISH: Undergraduate Courses

36.152 Spanish, Elementary I (3) Emphasis on audio-lingual skills. Drills on the main features of Spanish structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall and summer.

36.153 Spanish, Elementary II (3) Continuation of 36.152. Usually offered every spring and summer. *Prerequisite:* 36.152.

36.252 Spanish, Intermediate I (3) Audio-lingual skills as well as reading and writing. Text material is focused on Spanish cultural patterns. Usually offered every fall. *Prerequisite:* 36.153.

36.253 Spanish, Intermediate II (3) Continuation of 36.252. Usually offered every spring. *Prerequisite:* 36.252.

37.352 Spanish Conversation and Composition I (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 36.253 or equivalent.

37.353 Spanish Conversation and Composition II (3) Continuation of 37.352. Usually offered every spring. *Prerequisite:* 37.352 or equivalent.

37.356 Spanish Topics (3) Courses taught in Spanish on such topics as: the social scene in Latin America, regionalism in Latin America, survey of Latin American arts, Mexican culture, the River Plate and Chile, race in Spanish-American literature, Latin American film, religion and violence, Hispanics in the United States, and the Latin American short story. May be repeated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.656. *Prerequisite:* 37.353 or 37.354 or permission of instructor.

37.357 Introduction to Latin American Literature (3) A systematic survey of the historical development of Latin American literature. Reading of selected texts in the original, and their relationship to cultural, historical, political, and social developments. This course is intended as a transition course between Spanish Conversation and Composition (37.353 or 37.355) and higher level courses. Usually offered every term. *Prerequisite:* 37.353 or 37.355.

37.358 Introduction to Spanish Translation (3) An introduction to the methods, techniques, and problems involved in translating Spanish into English. Emphasis is on translating general material, with some consideration of the translation of specialized material. Meets with 37.658. Usually offered every fall. *Prerequisite:* 37.353 or 37.354 or permission of instructor.

37.359 Advanced Spanish Translation (3) Practice and critique of translations of a range of material (general, literary, business, diplomatic, social science, and technical). Primarily from Spanish to English, with some translation from English to Spanish. Review of translation theory, methods, techniques, and problems. This course is recommended for the Certificate in Translation (Spanish). Meets with 37.659. Usually offered every spring. *Prerequisite:* 37.358 or equivalent.

37.361 Introduction to Spanish Linguistics (3) Introduction to basic concepts of linguistics and their application to the Spanish language: phonology, morphology, syntax, etymology. Brief survey of the historical development of the Spanish language. Dialects of Spanish and other languages spoken in the Hispanic world. Introduction to a contrastive analysis of English and Spanish. Meets with 37.661. Usually offered every fall. *Prerequisite:* 37.353.

37.450 Spanish Civilization I: Spain (3) A study of the geography, history, arts, and literature of Spain from the beginning to the present. Usually offered every fall. *Prerequisite:* three years of college Spanish or equivalent.

37.451 Spanish Civilization II: Latin America (3) A study of the geography and complex process of the culture and history of the Latin American countries from the origin of the indigenous civilization to the present. Usually offered every spring. *Prerequisite:* three years of college Spanish or equivalent.

37.491 Internship: Spanish: *Proyecto Amistad* (2-6) An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington, D.C. Placements are available in bilingual schools, legal and consumer agencies, and national and international organizations. Advanced knowledge of Spanish is not required for undergraduate students. Usually offered every term. *Prerequisite:* two years of college Spanish and permission of instructor or department.

SPANISH: Graduate and Advanced Undergraduate Courses

37.554 Classics of Latin American Literature (3) Topic changes each semester, emphasis on a period of Spanish-American literature and culture from the colonial era to the present. May be repeated for credit in the same term; topic must be different. Usually offered every term.

37.559 Colloquium on Latin America (3) Lectures, reports, and critical discussions on peoples and governments of Latin America. Cultural trends, political and economic problems, and international relations. Taught in Spanish. May be repeated for credit in the same term; topic must be different. Usually offered every term.

SPANISH: Graduate Courses

36.050 Spanish Reading for Research (0) For students who have studied Spanish but require a refresher course stressing grammar review, vocabulary building and translation. Successful completion of the course with a grade of B or better may satisfy the graduate tool of research requirement; students should consult with their academic adviser. Usually offered every fall. *Prerequisite:* two years of high school or one year of college Spanish. *Note:* This non-credit course is open only to American University graduate students.

37.656 Spanish Topics (3) Courses taught in Spanish on such topics as: the social scene in Latin America, regionalism in Latin America, survey of Latin American arts, Mexican culture, the River Plate and Chile, race in Spanish-American literature, Latin American film, religion and violence, Hispanics in the United States, and the Latin American short story. Meets with 37.356. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* two years of college Spanish or equivalent.

37.658 Introduction to Spanish Translation (3) An introduction to the methods, techniques, and problems involved in translating from Spanish to English. Emphasis is on translating general material, with some consideration of the translation of specialized material. Meets with 37.358. Usually offered every fall.

37.659 Advanced Spanish Translation (3) Practice and critique of translations of a range of material (general, literary, business, diplomatic, social science, and technical). Primarily from Spanish to English, with some translation from English to Spanish. Review of

translation theory, methods, techniques, and problems. This course is recommended for the Graduate Certificate in Translation (Spanish). Meets with 37.359. Usually offered every spring. *Prerequisite:* 37.658 or equivalent.

37.661 Introduction to Spanish Linguistics (3) Introduction to basic concepts of linguistics and their application to the Spanish language: phonology, morphology, syntax, etymology. Brief survey of the historical development of the Spanish language. Dialects of Spanish and other languages spoken in the Hispanic world. Introduction to a contrastive analysis of English and Spanish. Meets with 37.361. Usually offered every fall.

37.691 Internship: Spanish: *Proyecto Amistad* (2-6) An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington, D.C. Placements are available in bilingual schools, legal and consumer agencies, and national and international organizations. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* two years of college Spanish and permission of instructor or department.

37.705 Seminar in Spanish and Latin American Studies (3) Reports and critical discussion of research papers on Spanish and Latin American literature. May be repeated for credit in the same term; topic must be different. Usually offered alternate years.

Linguistics/TESOL

Undergraduate Courses

38.253 Language and Mind (3) This course examines the relationships between language and the mind and theories of first- and second-language acquisition. Theories of second-language acquisition in childhood and by older learners and how they relate to trends in society and education. Usually offered alternate falls. *Note:* not open to students who have taken 38.200 Language and Mind.

38.352 Language and Ethnicity (3) Examines the complex relationships between language, personal identity, gender, ethnicity, marginality, and nationalism. Case studies explore language problems in nation-building, ethnicity and language maintenance, and the cultural consequences of language shift. Usually offered alternate falls. *Note:* not open to students who have taken 38.198 Language and Ethnicity.

Graduate and Advanced Undergraduate Courses

38.500 Principles of Linguistics (3) Introduction to scientific study of language with emphasis on current linguistic trends. Foundations for further study in linguistics and methodology of language teaching. Usually offered every term.

38.501 Theory and Practice of English Language Teaching I (3) A practical course introducing several methods of language instruction, examined with respect to both their foundations in linguistic theory and their implementation in the language classroom. Central to the course are opportunities to observe, demonstrate, and critique these methods. Usually offered every fall.

38.502 Theory and Practice of English Language Teaching II (3) A practical course focusing on classroom techniques and activities designed to facilitate the acquisition of the pronunciation, listening comprehension, reading, writing, and grammar of English. Central to the course are opportunities to observe, demonstrate, and critique these techniques and activities. Usually offered every spring.

38.503 Structure of English (3) Explores the complexities of spelling and word formation, grammatical structure, and semantic relations in English. Various approaches to grammatical analysis are covered, but the emphasis is on developing the practical foundations necessary for effective teaching, rather than on theoretical models. *Prerequisite:* 38.500. Usually offered every spring.

38.504 Language Analysis (3) An introduction to the formal analysis of languages, focusing on phonetics and phonemics, morphology, syntax, and semantics. Problem-solving strategies with respect to language data are emphasized. Usually offered every spring. *Prerequisite:* 38.500.

38.522 Language Acquisition (3) How and why do children learn language? Investigates language acquisition during the first five years (both speech and the rudiments of literacy). Major themes include the dynamics of the "language duet" between children and adults, variation across children, bilingualism, and the emergence of language awareness. Usually offered every fall. *Note:* not open to students who have taken 38.322/622 Language Acquisition.

38.523 Second-Language Acquisition (3) Theories of second-language acquisition and how they relate to trends in society and in education and related disciplines. Current theory in cognitive and affective domains as it relates to second-language learning. Usually offered alternate springs. *Note:* not open to students who have taken 38.323/623 Second-Language Acquisition.

38.524 Reading and Writing in the ESL/EFL Classroom (3) Theories of teaching literacy across the curriculum to students of diverse linguistic backgrounds and diverse ages. Effective instructional strategies based on current research. Methods for creating effective teaching/learning environments. Usually offered every summer.

38.525 Teaching English for Specific Purposes (3) A survey of the range of subject matter and instructional situations included under "English for specific purposes." Sample instructional materials from several areas are examined in detail. Adaptation of materials and writing of original materials are required. Usually offered every third semester. *Prerequisite:* 38.501 or 38.502.

38.527 Cultural Issues in the ESL/EFL Classroom (3) How does the linguistic and cultural diversity among students impact the teaching of English? Drawing upon theoretical foundations in cross-cultural communication and sociolinguistics, this practically oriented course explores the challenges and resources of multicultural ESL/EFL classrooms. Usually offered every spring.

38.528 Bilingual Education (3) Language acquisition, use, and competency in a bilingual setting, and the general goal of bilingual education. Usually offered every third semester. *Prerequisite:* permission of instructor.

38.531 Language Teaching and Testing (3) Designed for the TESOL graduate program as well as for those interested in second-language testing, this course offers an introduction to simple statistics, the skills of item-writing, and experience in test design and administration. Usually offered every fall.

38.554 Computer Applications for Language Teachers (3) Offers an introduction to both IBM and Macintosh computers. BASIC and Macintosh techniques, software use on both computers, and HYPERCARD are included. Students are introduced to software used in second-language education, especially TESOL, and in the teaching of writing, and the use

of such software in classroom interaction structures. Usually offered every third semester. *Prerequisite:* 38.500.

38.590 Independent Reading Course in English or Linguistics (1-6)

Graduate Courses

38.620 Practicum in ESL (3) Observation, participation and supervised classroom experience in selected ESL classes of the English Language Institute. Weekly conferences and/or seminars. Usually offered every spring. *Prerequisite:* 38.501 and 38.502 (previous teaching experience can substitute for one of these courses); permission of instructor required.

38.690 Independent Study Project in English or Linguistics (1-6)

38.797 Master's Thesis Seminar (1-6)

Mathematics and Statistics

Mathematics

Undergraduate Courses

Note: Students should consult the department for advice and placement testing for appropriate mathematics and statistics courses.

41.022 Basic Algebra (2) An introduction to algebra. Topics include a review of integer and rational numbers; solving linear equations in one or two variables; word problems; polynomials and rational expressions; radicals; the quadratic formula; and some graphing techniques. Usually offered every term. *Note:* Course 41.021 is intended for students with inadequate preparation for other courses in mathematics. No academic credit is received for this course, nor does it fulfill the mathematics requirement for any degree program. Credit equivalent is listed only for the purpose of determining full-time student status.

41.150 Finite Mathematics (3) Review of algebra, sets, linear equations and inequalities, nonlinear inequalities, interest problems, systems of linear equations, functions and graphs, and elementary data analysis. No credit toward mathematics major. Meets three times a week, for students who need extra work on mathematical skills. Students may not receive credit for more than one course numbered 41.15x. Usually offered every term. *Prerequisite:* three years of high school mathematics or equivalent.

41.151 Finite Mathematics (3) Review of algebra, sets, linear equations and inequalities, nonlinear inequalities, interest problems, systems of linear equations, functions and graphs, and elementary data analysis. No credit towards mathematics major. Meets two days a week. Students may not receive credit for more than one course numbered 41.15x. Usually offered every term. *Prerequisite:* three years of high school mathematics or equivalent.

41.155 Finite Mathematics: Elementary Models (3) Study of mathematical topics including linear, quadratic, polynomial, rational, exponential, and logarithmic functions, in the context of difference equations models. Emphasizes concepts and applications using numerical, graphical, and theoretical methods. Also includes an introduction to the mathematical subject of chaos. Students may not receive credit for more than one course numbered 41.15x. Usually offered every term. *Prerequisite:* three years of high school mathematics or equivalent.

41.157 Finite Mathematics: Business (3) Fundamentals of algebra, exponential, and logarithmic functions with emphasis on applications to problems in business and economics and the natural sciences. Intended primarily for students planning to take 41.211 Applied Calculus I. Students may not receive credit for more than one course numbered 41.15x. Usually offered every term. *Prerequisite:* three years of high school mathematics or equivalent.

41.170 Precalculus Mathematics (3) Fundamentals of algebraic, logarithmic, exponential, and trigonometric functions for students planning to take 41.221, 41.150 and 41.170 may not both be used to fulfill the mathematics requirements for any major program. Usually offered every term. *Prerequisite:* three years of high school mathematics, or 41.150 or higher, or permission of instructor.

41.211 Applied Calculus I (4) Continuity, limits, differentiation, and integration. Applications to biological, social, and environmental sciences and business. No credit toward a mathematics, mathematical statistics, or applied mathematics major, but together with 41.212 meets calculus requirement for applied statistics majors. Students may not receive credit toward a degree for both 41.211 and 41.221. Usually offered every term. *Prerequisite:* 41.150 or higher, or permission of instructor.

41.212 Applied Calculus II (3) Calculus of several variables, matrices, series, and differential equations. Applications to biological, social, and environmental sciences and business. No credit toward mathematics, mathematical statistics, or applied mathematics major, but together with 41.211 meets requirement for applied statistics or computer science majors. Students may not receive credit toward a degree for 41.212 if they have received credit for 41.222 or 41.223. Usually offered every spring. *Prerequisite:* 41.211 or 41.221.

41.221 Calculus I (4) Real numbers; coordinate systems; functions; limits and continuity; differentiation and applications; trigonometric functions; indefinite and definite integration and applications; fundamental theorem of integral calculus. Students may not receive credit toward a degree for both 41.211 and 41.221. Usually offered every term. *Prerequisite:* 41.170 or four years of high school mathematics.

41.222 Calculus II (4) Techniques of integration, calculus of exponential and logarithmic functions, infinite series, power series representations, and analytic geometry. Students may not receive credit for 41.222 if they have taken 41.212. Usually offered every term. *Prerequisite:* 41.221.

41.223 Calculus III (4) Vectors, functions of several variables, partial differentiation, and multiple integrals. Usually offered every term. *Prerequisite:* 41.222.

41.310 Linear Algebra (3) Vector spaces, systems of linear equations, solutions by matrices, determinants, linear transformations, and algebraic forms. Usually offered every spring and summer. *Prerequisite:* 41.212 or 41.222 or taken concurrently with 41.222.

41.321 Differential Equations (3) First order equations, linear equations of higher order, solutions in series, Laplace transforms, topics in numerical methods, and applications to mechanics, electrical circuits, and biology. Usually offered every fall. *Prerequisite:* 41.223, which may be taken concurrently.

41.322 Advanced Calculus (3) A rigorous development of one and several variable calculus. Topics include: mathematical induction, structure of the real numbers, theory of continuity, differentiability, Riemann integration, uniform convergence, the implicit and inverse function the-

orems, Jacobian and Hessian matrices, and the theorems of Green, Gauss, and Stokes. Usually offered every spring. *Prerequisite:* 41.223.

41.390 Independent Reading Course in Mathematics (1-6)

41.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

41.490 Independent Study Project in Mathematics (1-6)

Graduate and Advanced Undergraduate Courses

41.501 Probability (3) Algebra of sets; probability in discrete sample spaces; combinatorial analysis; random variables; binomial, Poisson, normal, and other distributions; and applications. Usually offered every fall. *Prerequisite:* 41.212 or 41.222.

41.505 Mathematical Logic (3) The mathematical study of the scope and limits of deductive reasoning with special attention to propositional and first order logic, leading to results concerning completeness, compactness, and the existence of decision procedures for various logical systems, culminating in the incompleteness theorems of Godel. Usually offered alternate springs (odd years). *Prerequisite:* 41.310. *Note:* not open to students who have taken 41.525.

41.510 Geometry (3) Euclidean and non-Euclidean (spherical, elliptic and hyperbolic) geometries from axiomatic and analytic points of view. Topics include: isometries, transformation groups, symmetry groups, quadratic forms, projective geometry, as well as some historical background. Usually offered alternate falls (even years). *Prerequisite:* 41.310 or equivalent.

41.512, 41.513 Introduction to Modern Algebra I, II (3), (3) Groups, rings, vector spaces and modules, fields, and Galois theory. Usually offered every fall (41.512) and spring (41.513). *Prerequisite:* 41.322 or permission of instructor.

41.515 Number Theory (3) Divisibility, fundamental theorem of arithmetic, congruences, arithmetic functions, Diophantine equations, quadratic residues, sums of squares, and partitions. Usually offered alternate falls (even years). *Prerequisite:* 41.222.

41.520, 41.521 Introduction to Analysis I, II (3), (3) Analysis in Euclidean and metric spaces, point sets, completeness, convergence, continuity, differentiability, and integration. 41.520 usually offered every fall; 41.521 usually offered every spring. *Prerequisite:* 41.322 or permission of instructor.

41.540 Topology (3) Topological spaces, continuity, compactness, connectedness, and metric spaces. Usually offered alternate springs (even years). *Prerequisite:* 41.322 or permission of instructor.

41.550 Complex Variables for Applications (3) Complex functions, Cauchy's theorem and integral formulae, Taylor and Laurent series, residue calculus and contour integration, and conformal mapping. Usually offered every fall. *Prerequisite:* 41.321 or 41.223.

41.551 Partial Differential Equations (3) Fourier series, orthonormal systems, wave equation, vibrating strings and membranes, heat equation, Laplace's equation, harmonic and Green functions. Usually offered alternate springs (even years). *Prerequisite:* 41.321.

41.560 Numerical Analysis: Basic Problems (3) Computer arithmetic and error analysis in computation, matrix decomposition methods in solving systems of linear equations and linear least squares problems, polynomial approximation and polynomial data fitting, iterative algorithms for solving nonlinear equations, and numerical differentiation and integration. Usually offered every spring. *Prerequisite:* 64.280, 41.310, and 41.322, or permission of instructor.

41.570 History of Mathematics (3) This course surveys aspects of historical development of mathematics from ancient to modern times and examines the ideological, social, and cultural forces which shaped this development. By providing historical continuity, the course interrelates and unifies the major subject areas such as algebra, calculus and analysis, geometry, number theory, probability, set theory, and the foundation of mathematics. Usually offered alternate falls (odd years). *Prerequisite:* Calculus I–III. *Note:* Strongly recommended for students in the mathematics education program.

41.574 Theory of Probability (3) Mathematical treatment of random variables, distribution functions, generating and characteristic functions, and limit theorems. Emphasis is on rigorous derivation of results using principles of advanced calculus, i.e., limits, continuity, sequences, etc. Usually offered every fall. *Prerequisite:* 41.223 and 41.501 or permission of instructor.

41.580 Topics in Mathematics (3) Topics include the following: foundations/set theory/logic, matrix theory, algebraic topology, measure and integration, functional analysis, ring theory, modern geometry, and advanced modern linear algebra. May be repeated for credit; topic must be different. Usually offered every spring.

41.582 Automata, Languages, and Computability (3) Introduction to the theoretical concepts underlying computing. Finite automata, push-down automata, and Turing machines. Regular, context-free, and phrase-structure languages. Computability and computational complexity. Usually offered every spring. *Prerequisite:* 64.350 or permission of instructor. *Note:* Not open to students who have taken 40.382/582.

41.585 Mathematics Education (3) Curriculum construction and program design, instructional effectiveness, and methods and technology for teaching mathematics. Different approaches for students with a variety of mathematical and cultural backgrounds. Required of all students in mathematics education. Usually offered every fall. *Prerequisite:* 41.223.

41.590 Independent Reading Course in Mathematics (1-6)

Graduate Courses

41.601 Harmonic Analysis (3) Harmonic analysis on the circle, the real line, and on groups. The main concepts are: periodic functions, Fourier series, Fourier transform and spherical harmonics. The course includes a brief account of the necessary ingredients from the theory of the Lebesgue integral. Usually offered alternate springs (odd years). *Prerequisite:* 41.322 or permission of instructor.

41.674 Advanced Probability (3) Measure theoretical treatment of probability, convergence of random variables, conditional probability and expectation, laws of large numbers, infinitely divisible distributions, general central limit theorem. Usually offered alternate springs (even years). *Prerequisite:* 41.574.

41.685 Practicum in Mathematics Education (3) Seminar course in researching, implementing, and writing in publishable form an innovative teaching methodology, educational contribution, or internship in cooperating school system, college, or other organization involving teaching. Required of all students in the Ph.D. program in mathematics education. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs (odd years).

41.690 Independent Study Project in Mathematics (1-6)

41.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

41.790 Research Seminar in Mathematics Education (3) In-depth exploration of current issues in mathematics education. A research paper and presentation are required. Course required of all students in the Ph.D. program in mathematics education. May be repeated for credit, but not within the same term; topic must be different. Usually offered alternate springs (even years).

41.797 Master's Thesis Seminar in Mathematics (1-6) Usually offered every term.

41.799 Doctoral Dissertation Seminar in Mathematics (1-12) Usually offered every term.

Statistics

Undergraduate Courses

42.202 Basic Statistics (4) Classification of data, averages, dispersion, probability, frequency distributions, confidence intervals, tests of significance, nonparametric techniques, simple regression, and correlation. A package of computer programs is used to demonstrate various statistical techniques. Separate sections are available for biology, business, economics, psychology, education, sociology, and government majors. Usually offered every term. *Prerequisite:* 41.150 or permission of department.

42.300 Business and Economic Statistics (3) Estimation, inference, multiple regression, and correlation. Elementary decision theory. Usually offered every term. *Prerequisite:* a grade of C or higher in 42.202, or permission of department. *Note:* not open to students who have taken 42.302 or 42.514.

42.302 Intermediate Statistics (3) Acquisition and development of statistical methods that are used commonly throughout the social sciences, the physical sciences, and governments for research as well as for routine planning and forecasting. Methods include techniques for estimation and inference with qualitative and quantitative data focusing on regression, correlation, analysis of variance and nonparametric statistics. Usually offered every term. *Prerequisite:* a grade of C or higher in 42.202, or permission of department. *Note:* not open to students who have taken 42.300 or 42.514.

42.390 Independent Reading Course in Statistics (1-6)

42.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

42.490 Independent Study Project in Statistics (1-6)

Graduate and Advanced Undergraduate Courses

42.502 Introduction to Mathematical Statistics (3) Probability, probability distributions, sampling, sampling distributions, and introduction to the theory of point estimation and statistical inference, including confidence intervals and hypothesis testing. Usually offered every spring. *Prerequisite:* 41.212 or equivalent and 41.501, or permission of instructor.

42.510, 42.511 Theory of Sampling I, II (3), (3) Mathematical development of basic principles of survey design, including methods for determining expected value, bias, variance, and mean square error; simple random, systematic, stratified, cluster, multistage, and double sampling; unbiased, ratio, regression, and composite estimation; optimum allocation of resources; controlled and other nonsimple methods of selection; introduction to measurement error; and comparison of alternative designs.

42.510 usually offered alternate falls; 42.511 usually offered alternate springs. *Prerequisite:* 42.502 or equivalent.

42.514 Statistical Methods (3) Averages, dispersion, probability, sampling, and approach to normality; simple and multiple regression; tests and confidence intervals for means, proportions, differences, and regression coefficients; nonparametric statistics; and analysis of variance. Usually offered every term. *Prerequisite:* 42.202 or equivalent. *Note:* not open to students who have taken 42.300; no credit for a major in mathematics or statistics.

42.515 Regression (3) Simple and multiple regression, least squares, curve fitting, graphic techniques, and tests and confidence intervals for regression coefficients. Usually offered every fall and summer. *Prerequisite:* 42.514 or equivalent.

42.516 Design of Experiments (3) Design and analysis of the results of balanced experiments, simple analysis of variance, components of variance, analysis of covariance, and related topics. Usually offered every spring. *Prerequisite:* 42.514 or equivalent.

42.517 Special Topics in Statistical Methodology (3) Alternating topics in statistics treated from an applied viewpoint. Topics include sampling, multivariate techniques, factor analysis, and time series. May be repeated for credit, but not within the same term; topic must be different. Usually offered alternate summers (odd years). *Prerequisite:* 42.514 or equivalent.

42.519 Nonparametric Statistics (3) Application of nonparametric techniques in the analysis of social-science data, with emphasis on tests appropriate for data having interval, nominal, and ordinal scales. Usually offered alternate falls (even years). *Prerequisite:* 42.514 or permission of instructor.

42.520 Applied Multivariate Analysis (3) Introduction to multivariate analysis emphasizing statistical applications. Topics include matrix theory, multivariate distributions, tests of hypotheses, multivariate analysis of variance, principal components, discriminant analysis, canonical correlation, multivariate regression, and related topics. Usually offered alternate falls (odd years). *Prerequisite:* 42.514 or equivalent.

42.521 Analysis of Frequency Data (3) Chi-square tests, contingency tables (2×2 , $r \times c$, and multidimensional), loglinear models, and other special models. Usually offered alternate springs (even years). *Prerequisite:* 42.514 or equivalent.

42.522 Time-Series Analysis (3) An introduction to the theory of time-dependent data. The analysis includes modeling, estimation, and testing; alternating between the time domain; using autoregressive and moving average models and the frequency domain; and using spectral analysis. Usually offered alternate springs (odd years). *Prerequisite:* 42.515 or 42.520 or permission of instructor.

42.524 Data Analysis (3) An introduction to the topics of exploratory data analysis, including resistant or robust techniques, study of residuals, transformations, graphical displays, and related topics. Usually offered every fall. *Prerequisite:* 42.515 or 42.520 or equivalent.

42.525 Statistical Software (3) Introduction to the use of the SAS language to prepare, modify, and analyze data, interpret output and final preparation of results. Emphasis on practical programming principles and use of built-in procedures in both personal computer and main frame environments. Comparisons with other programming languages. Usually offered every spring. *Prerequisite:* 42.514 or two statistics courses, or permission of instructor.

42.530, 42.531 Mathematical Statistics I, II (3), (3) Distribution and functions of random variables, generating functions, order statistics, point estimation, maximum likelihood, confidence intervals, tests of hypotheses (Neyman-Pearson, likelihood ratio, etc.), linear regression, and analysis of variance. 42.530 usually offered every fall; 42.531 usually offered every spring. *Prerequisite:* 41.223, 42.502 or equivalent, and 41.310.

42.584 Introduction to Stochastic Processes (3) Introduction to random walks, Markov chains and processes, Poisson processes, recurrent events, birth and death processes, and related topics. Usually offered every spring. *Prerequisite:* 41.501 or 42.530 or 41.574.

42.590 Independent Reading Course in Statistics (1-6)

Graduate Courses

42.600 Advanced Mathematical Statistics (3) Theory of estimation, properties of estimators, large-sample properties and techniques, and applications. Usually offered every fall. *Prerequisite:* 42.531 and 41.574 (may be taken concurrently).

42.601 Topics in Advanced Probability and Statistics (3) Mathematical foundations of statistical theory. Special topics in probability and mathematical statistics. May be repeated for credit, topic must be different. Usually offered every spring. *Prerequisite:* permission of instructor.

42.610 Statistical Inference: Estimation (3) The mathematical foundations of statistical inference are discussed. Topics involving the Theory of Estimation include: minimum risk, Bayes, minimax, and equivariant estimation; decision theory; and large sample behavior. Usually offered alternate falls. *Prerequisite:* 42.600.

42.620, 42.621 Multivariate Analysis I, II (3), (3) Multivariate normal distribution, Hotelling's T^2 , Wilks's likelihood ratio criterion, other test statistics, classification problems, principal components, canonical correlation, general multivariate regression and experimental designs, and related topics. Usually offered alternate falls (42.620) and alternate springs (42.621). *Prerequisite:* 41.310 and 42.600 (may be taken concurrently).

42.640 Statistical Computing (3) An introduction to numerical analysis, computer science, and statistical theory as they apply to random number generation, the Monte Carlo method, simulations, and other aspects of statistical computing. Usually offered every spring. *Prerequisite:* 41.560, 42.531 and 64.520.

42.670, 42.671 Linear Estimation I, II (3), (3) General linear hypothesis, least-squares estimation, Gauss-Markov theorem, regression, analysis of variance, multiple comparisons, analysis of covariance, factorial designs, randomized blocks, other experimental designs, and effects of departures from assumptions. 42.670 usually offered alternate falls; 42.671 usually offered alternate springs. *Prerequisite:* 41.510 and 42.600 (may be taken concurrently).

42.690 Independent Study Project in Statistics (1-6)

42.691 Internship in Statistics (1-6) Individual placement and supervision of an internship in an approved organization. Activities undertaken must involve statistical analysis, methodology, or theory. Usually offered every term. *Prerequisite:* permission of instructor.

42.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

42.797 Master's Thesis Seminar in Statistics (1-6)

42.798 Statistical Research and Consulting (3) Topics chosen from recent research in statistics. Through written reviews and oral presentations, students investigate advances in statistical theory and applications as reported in recent journals. Through interaction with other departments, students learn to formulate statistically problems expressed in the language of another discipline and interact in a consulting role with researchers outside of statistics. May be repeated for credit, but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of department.

42.799 Doctoral Dissertation Seminar in Statistics (1-12)

Health and Fitness

Undergraduate Courses

49.100 Beginning Swimming (1) Designed for students who are unable to maintain themselves in deep water. Students overcome the fear of the water and learn to feel at ease in aquatic environments while learning basic swimming skills. Usually offered every term.

49.101 Intermediate Swimming (1) Instruction in swimming skills and techniques for students interested in perfecting their swimming strokes, endurance, and associated aquatic skills. Usually offered every term. *Prerequisite:* 49.100 or ability to pass beginner's test.

49.102 Lifesaving/Lifeguard Training (2) Development of safety skills, use of lifesaving equipment, and techniques of swimming rescues. Students meeting American Red Cross requirements earn A.R.C. Life-Saving Certificate. Usually offered every fall. *Prerequisite:* 49.270 or valid First Aid and CPR certification, and 49.101 or permission of instructor.

49.120 Beginning Martial Arts (1) Introductory course for the beginner to develop the basic skills of the martial arts. Physical and mental discipline are stressed, as well as self-defense techniques. Flexibility, balance, endurance, and strength are improved. The course prepares the student to advance to the Tae Kwon Do rank of Yellow Belt. Usually offered every term.

49.121 Intermediate Martial Arts (1) Continuation of the development of the martial arts skills. Additional techniques and forms are presented. The course prepares the student to advance to the Tae Kwon Do rank of Green Belt. Usually offered every term. *Prerequisite:* 49.120 or permission of instructor.

49.122 Advanced Martial Arts (2) For the dedicated student seeking to further develop the skills and techniques of the martial arts to a more advanced degree. A more rigorous level of training than 49.121 is required. Attainment of belt ranking may vary. Usually offered every spring. *Prerequisite:* 49.121 or permission of the instructor.

49.125 Personal Defense (1) Introduction to the basic principles of self-defense. Emphasis is placed on perfecting the basic skills and techniques in protecting oneself. Physical conditioning, strength, and flexibility are attained, along with the understanding of the legal and psychological aspects involved in personal defense. Usually offered every spring.

49.130 Walking and Jogging (1) Designed for all levels of walkers and joggers. Enables individuals to design their own programs based upon goals such as cardiovascular conditioning, muscle toning, weight loss, and long-term health. Usually offered every term.

49.140 Fencing (1) A general overview of the techniques, strategies, and psychology of foil fencing, with an emphasis on the historic

perspectives and traditions from a variety of cultures. There is a dual emphasis on developing physical skills and studying the implementation of tactics in situations in the world of fencing. Usually offered every term.

49.150 Golf (1) Designed for the beginning player. Skill work consists of grip, stance, and swing techniques for putting, short irons, middle irons, and woods. Special emphasis is placed on rules, terminology, and etiquette. Usually offered every term.

49.170 Recreational Activities (1-3) Development of skills, techniques, and knowledge of selected individual, dual, and team activities with emphasis on seasonal sports, including volleyball and soccer. May be repeated for credit in the same term; topic must be different. Offered irregularly.

49.179 Tennis Skills Workshop for the Novice (1) Designed for players with diversified experience, with emphasis on learning and developing the strokes and strategies necessary for various levels of play. Instruction includes biomechanics and videotape analysis. Usually offered every summer.

49.180 Beginning Tennis (1) Designed for beginners who have had little or no playing experience or formal instruction. Students learn the forehand, backhand, serve, volley, history, scoring, rules, and basic strategy. Usually offered every term.

49.181 Intermediate Tennis (1) Designed for the student who can execute the basic strokes and has some playing experience. Instruction includes basic stroke refinement, adding spin to the strokes, and strategy in singles and doubles play. Usually offered every term. Qualifying pre-test required. *Prerequisite:* 49.180 or permission of instructor.

49.182 Advanced Tennis (2) For the player who has a sound understanding of the game and can play at a 4.0 USTA rating. Instruction includes drills, physical and psychological fitness, imagery, biomechanics, match play and corrective stroke techniques. Usually offered every term. *Prerequisite:* 49.181 or permission of instructor.

49.185 Racquetball/Squash (1) Designed to develop the fundamental skills, strategies, and techniques of racquetball and squash. Usually offered every term.

49.193 Aquatic Fitness/Water Aerobics (2) Develops cardiovascular fitness through aquatic activities. Emphasis on current theories of exercise physiology in personal conditioning programs. Suggested alternative to weight bearing forms of exercise. Topics include: body mechanics, hydrodynamics, program design and water safety. Usually offered every term.

49.195 Principles and Techniques of Weight Training (2) An overview of muscle anatomy, exercise physiology, and biomechanics as they apply to the development of muscle strength. Systems and principles of weight training. Practical experience in strength development through a progressive resistance program. Usually offered every term.

49.197 Aerobic Dance (2) Using aerobic activity to develop and maintain body awareness in five major areas: cardiovascular and muscular endurance, flexibility, muscular strength, and promotion of ideal body composition through activity with music. The goal is the reduction of emotional tension, greater productivity, improved performance, formation of fat-burning enzyme, and a healthier cardiovascular system. Usually offered every term.

49.200 Lifetime Health and Fitness (3) The physiological, sociological, and psychological aspects of fitness and health are introduced. Emphasis is placed on developing self-responsibility for total wellness. Students will participate in fitness activities and classroom instruction/discussions. Usually offered every term.

49.209 Growth and Development Throughout the Life Cycle (3) Provides an overview of the physical, psychological, and sociological development of the individual. Integrates several disciplines in examining the human life cycle from "the cradle to the grave." Usually offered every fall.

49.210 SCUBA (2) The course provides a balanced curriculum in skin and SCUBA diving, providing practical skill development in the pool and a thorough grounding in the physics, physiology, technology, and history of sport diving. Student responsible for cost of personal equipment. Usually offered every term. *Note:* For certification, must be taken with 49.211.

49.211 SCUBA Certification Laboratory (1) Includes five open-water dives in salt and fresh water, additional equipment training, and an introduction to boat as well as shore staging for sport diving. Basic rescue techniques are introduced. The laboratory, in conjunction with the standard course, is sufficient to qualify the student as a certified basic diver under the standards of a nationally recognized certifying organization. Usually offered every term. *Prerequisite:* must be taken concurrently with 49.210.

49.220 Basic Rock Climbing (2) Combination of classroom instruction and climbing local rock formations provides physical conditioning and skills required for safe, successful climbing experience. Usually offered every term.

49.230 High-Level Conditioning (2) Improvement of cardiovascular and muscular fitness through various aerobic activities. Students develop personal conditioning programs. Classroom discussions include: diet theory, circuit training, flexibility, and specificity of exercise. Pre/post fitness assessment tests are administered. Usually offered every term.

49.250 Strategies in Stress Reduction (3) The nature and causes of stress, its effect on the human body, and both cognitive behavioral approaches as well as relaxation techniques to control it. The course offers a holistic approach to stress management through a combination of lecture and laboratory on skills in relaxation. Methods include: deep breathing, mental imagery, progressive muscular relaxation, muscle massage, art therapy, journal writing, value assessment and clarification, physical exercise, and meditation. Usually offered every term.

49.260 Aerobic Dance-Exercise Instructor's Workshop (2) Designed to enable the student to teach safe, and effective aerobic dance-exercise to multi-level classes and to prepare the student to successfully complete the International Dance-Exercise Association Certification examination. Usually offered every spring. *Prerequisite:* 49.197 or permission of instructor.

49.270 First Aid, CPR, and Medical Emergencies (3) Training in first aid and CPR (Cardio-Pulmonary Resuscitation). Determination of the emergency and the course of action for rendering appropriate care. Information on the prevention, and care of wounds, application of dressings and bandages, choking procedures, musculoskeletal system injuries, burns, heat and cold injuries, emergency rescue techniques. Certification by the National Safety Council; First Aid Level 3 and CPR/BLS-B. Usually offered every term.

49.273 Care and Prevention of Athletic Injuries (3) Introduction to the field of sports medicine in the areas of injury evaluation, care, rehabilitation, and prevention. Includes emergency procedures, legal issues, taping, use of modalities, nutrition, strength and conditioning, and psychological aspects of sports medicine. Usually offered every spring.

49.318 Fundamentals of Health Promotion Management (3) The purpose of this course is to introduce the basic skills necessary for the effective planning, marketing, and implementation of health promotion programs. Upon completion of this course, the student has a basic knowledge of the analytical tools and strategies utilized in the planning, marketing, implementation, and managing of successful health promotion programs. Usually offered every fall. *Prerequisite:* major in Health Promotion or permission of the instructor.

49.327 Dealing with Sexual Assault (3) The psycho-social and medico-legal aspects of sexual assault. Topics include: definitions; myths versus facts; preventive measures; motivations and strategies of the assailant; police, medical, and legal procedures; psychological reactions; and counseling techniques for victim and family. Consideration is given to male, female, adult, and child victims. Usually offered every fall.

49.330 Modern Theories of Health and Wellness (3) A health philosophy and psychology course which examines the physical, mental, spiritual, and emotional aspects of total well-being, and to what extent personal and social attitudes influence health behavior. Theories include those of Carl Jung, Victor Frankl, M.S. Peck, Elisabeth Kubler-Ross, Roger von Oech, and others. Usually offered every spring.

49.333 Leadership for Health Promotion (1) This course serves as an introductory workshop to the essential elements for effective leadership. The course focuses on the philosophies, principles, and skills that underpin the health promotion profession and health professionals. Students define and develop their own leadership style. Usually offered every spring.

49.335 Introduction to Health Promotion Programs (3) An introduction to the basic principles of the development and implementation of health promotion programs. This course places particular emphasis on the identification of health and lifestyle risk factors and the interventions associated with appropriate and effective management of these risks. Usually offered every fall. *Prerequisite:* major in Health Promotion or permission of the department.

49.340 Camping and Backpacking (3) Methods, techniques, and skills related to camping, backpacking, and hiking. Includes selection of equipment and camp site, orienteering, cooking, and implications for ecology and conservation. Overnight field experience required during course. Offered irregularly.

49.350 Current Concepts in Nutrition (3) Provides an understanding of basic nutritional concepts and current available information. Enables students to make informed decisions about their nutritional requirements and diet choices. Includes a three-day computer analysis as well as determination of frame size and body fat percentage. Topics include: fiber vs. fat; vegetarianism; effects of food on mood; current USDA & FDA policy issues; eating disorders; and national hunger issues. Usually offered every term. *Note:* not open to students who have taken 49.240 Nutrition and Modern Food.

49.390 Independent Reading Course in Health and Fitness (1-6)

49.392 Cooperative Education Field Experience (6) See description under Cooperative Education in this publication. *Prerequisite:* major in Health Promotion or permission of department.

49.423 Issues in Women's Health (3) Provides basic understanding of gynecologic anatomy and physiology as well as female health conditions. Emphasis placed on current health research areas such as: female cancers, menopause, infertility, lesbian health, minority health, sexually transmitted diseases, pregnancy, and sexual dysfunctions. Students develop a personal health plan based upon an extensive family history and personal lifestyle. Usually offered every term. *Note:* Not open to students who have taken 49.323 Women's Health.

49.425 Exercise Physiology (3) Provides a physiological perspective of exercise and other forms of physical activity. Emphasizes the influences of aerobic and anaerobic exercise on the cardiovascular, digestive, neuromuscular, hormonal and pulmonary physiological systems. Includes fitness assessment, exercise prescription and training programming. Usually offered every fall. *Prerequisite:* 09.200, 15.100, and 15.200 or 15.506.

49.488 Senior Seminar (3) This course provides senior majors with an opportunity to pursue and closely examine health promotion programs and policies nationally and internationally. It encompasses theoretical analysis of health issues as well as discussions on alternative approaches for health promotion programming. Usually offered every spring. *Prerequisite:* major in Health Promotion or permission of the instructor.

49.490 Independent Study Project in Health and Fitness (1-6)

49.491 Internship in Health Promotion (6) Internships with employee fitness programs, fitness centers, non-profit organizations, or health and fitness organizations, emphasizing clinical, educational, or promotional aspects of health promotion. Usually offered every term. *Prerequisite:* major in Health Promotion or permission of department.

Graduate and Advanced Undergraduate Courses

49.530 Health Fitness Leadership Workshop (1) The focus of this seminar is on the study and application of the philosophies, principles, and skills for effective leadership in general and for the health fitness industry in particular. Class members actively participate in class discussions. Throughout the semester guest speakers share their knowledge on particular aspects of leadership. Usually offered every fall.

49.540 Health Communication (3) This course addresses three distinct forms of delivering the health promotion message to consumers, professionals, and large groups. The course is divided into three modules, covering health counseling, mass health communication, and health writing and public speaking. Students have the opportunity to counsel individuals, publish manuscripts, or give a presentation on a health-related topic. Usually offered every fall. *Prerequisite:* admission to Health and Fitness program or permission of department chair.

49.565 Assessment and Evaluation of Health Fitness Parameters (3) This course provides a basic review of validity, reliability, and objectivity as they relate to measurement techniques in health promotion programs. The primary focus is on the use and analysis of assessment instruments used to determine health risks, aerobic capacity, musculoskeletal function, body composition, strength, and

flexibility. Usually offered every fall. *Prerequisite:* major in Health Promotion or permission of the instructor.

49.590 Independent Reading Course in Health and Fitness (1-6)

Graduate Courses

49.610 Applied Human Physiology and Testing I (3) Theoretical basis for exercise physiology explored in detail. Emphasis is on changes occurring in body systems as a result of exercise and training. Usually offered every fall. *Prerequisite:* 09.330, 09.331, 09.332, 09.333, 49.425 or equivalent, and permission of the director of the Health Fitness Management Program.

49.615 Applied Human Physiology and Testing II (3) Introduction to methods of physical fitness assessment and evaluation of results. Includes familiarization with treadmill tests, hydrostatic weighing, EKGs, and selected health status appraisal tools and techniques. Usually offered every spring. *Prerequisite:* 49.610 and permission of the director of the Health Fitness Management Program.

49.618 Strategic Planning in Health Promotion (3) Provides exposure to the concepts and requirements of planning and developing health promotion programs. Students gain a working knowledge of the analytical tools and strategies used in the development of successful health promotion programs in both the profit and nonprofit sectors. Usually offered every fall.

49.640 Nutrition for Health Fitness (3) The role of nutrition in maintaining health and physical fitness is studied in relation to the responsibilities and opportunities of the manager of health fitness programs. Current food myths, diets for those in athletic programs, and special needs of overweight and underweight clients are included. Usually offered every spring. *Prerequisite:* 15.506 or permission of the director of the Health Fitness Management Program.

49.690 Independent Study Project in Health and Fitness (1-6)

49.790 Critical Issues in Health Fitness Management (3) Survey of current literature on the various topics of physical fitness, coronary risk factors, nutrition, smoking, and other topics related to health and fitness. Includes a survey of various organizations that are resources for health information, and field trips to selected health and fitness programs or organizations. Usually offered every fall. *Prerequisite:* admission to the Health Fitness Management program or permission of instructor.

49.791 Research Methodology in Health Fitness (3) Provides students in the Health Fitness Management program with a comprehensive understanding of the concepts and methodology that are essential for quality research. Usually offered every spring.

49.792 In-Service Training in Health Fitness Management (3) Internships with employee fitness programs, fitness centers, or health and fitness organization; may emphasize managerial, clinical, educational, or promotional aspects of health fitness management. Usually offered every term. *Prerequisite:* admission to the Health Fitness Management program.

49.797 Master's Thesis Seminar in Health Fitness Management (3) May be repeated but not in the same term; content may be the same. Usually offered every term.

Audio Technology

Undergraduate Courses

50.101 Fundamentals of Audio Technology (3) Anatomy of audio components; generation, transmission, and detection of sound; properties of sound; electricity and magnetism with applications to transducers, preamplifiers, amplifiers, tuners, and tape decks; electromagnetic waves, AM, FM, and PM modulation; and elements of AM and FM tuners. Usually offered every spring. *Prerequisite:* permission of instructor. *Note:* not open to students who have taken 50.201 Fundamentals of Audio Technology.

50.102 Audio Technology Laboratory (1) Experiments to accompany 50.101 are performed weekly on loudspeaker directivity, amplifier frequency response, amplifier power output, tape recorder frequency response, wow and flutter, and distortion measurements. Usually offered every term. *Prerequisite:* permission of instructor. *Note:* not open to students who have taken 50.202 Audio Technology Laboratory.

50.210 Sound Synthesis I (4) Principles and practice of analog and digital sound synthesis. Topics include: basic recording techniques, effects processing, waveform synthesis methods, event timing, and microprocessor fundamentals. Emphasis on the technology and lexicon of creating electronic music. Includes laboratory component for application of multitrack recording techniques, additive, subtractive, and modulated synthesis with an introduction to MIDI. Usually offered every fall. *Prerequisite:* 50.101, 51.105, 51.110 or permission of instructor. *Note:* not open to students who have taken 50.310 Sound Synthesis I.

50.220 Sound Synthesis II (4) Continuation of 50.210. Waveform synthesis algorithms, sequencer programming, time code synchronization, multi-track composition, complex event design, programming, and system architecture. Provides a systems-oriented understanding of integrated technologies and techniques involving analog, digital, hybrid, and computer-based synthesizer composition. Includes laboratory component for application of tape effects, signal processing, analog and digital sequencing, synchronization techniques, sampling, MIDI networks, and intermediate-level synthesizer programming. Usually offered every spring. *Prerequisite:* 50.210, 51.205, 51.210 or permission of instructor. *Note:* not open to students who have taken 50.320 Sound Synthesis II.

50.305 Acoustics (3) Properties of sound, speech and music, reflection and diffraction. Open-air theaters, sound-absorptive materials and special constructions, and principles of room acoustics and design. Noise control, reduction of air-borne and solid-borne noise, and control of noise in ventilating systems, sound-amplification systems, and auditoriums. Usually offered every fall. *Prerequisite:* 51.205. *Note:* not open to students who have taken 50.230 Acoustics.

50.312 Electronics I (3) Fundamentals of basic analog electronic components and circuits. Components examined include: resistors, capacitors, inductors, rectifiers, transformers, triodes, and transistors. Quantities examined include: voltage, resistance, current, inductance, capacitance, reactance, and impedance. Circuit analysis involves application of Ohm's Law and Kirchhoff's rules. Circuits include: DC, AC, tuned, rectifier, and simple amplifying circuits. Usually offered every fall. *Prerequisite:* 50.101; 51.205 (or 51.210).

50.313 Electronics II (3) Continuation of analog electronics with an introduction to switching circuits and the fundamentals of digital electronics (TTL and diode logic). Components include semiconductor devices, operational amplifiers, ICs, D/A and A/D converters. Circuits include: multiple transistor amplifiers, transistor switching, oscillators, gates, and flip-flops. Usually offered every spring. *Prerequisite:* 50.312.

50.322 Electronics Laboratory I (2) Experiments to accompany 50.312. Experiments include: DC circuits, resistance, capacitance, inductance, AC circuits, rectifiers, vacuum tubes, transistors, and amplifying circuits. Usually offered every fall. *Prerequisite:* 50.312, which may be taken concurrently.

50.323 Electronics Laboratory II (2) Experiments to accompany 50.313. Experiments include: transistor characteristics, multiple transistor amplifiers, operational amplifiers, oscillators, gates, flip-flops, D/A and A/D conversion, and circuits using ICs. Usually offered every spring. *Prerequisite:* 50.313, which may be taken concurrently.

50.360 Concert Sound (3) Live concert sound engineering. Outdoor and indoor acoustics are studied in terms of how to interface a sound system with these environments. Students set up a large PA system and learn how to use it with live orchestras and bands. The art of miking, mixing and sound checking is discussed. Usually offered alternate springs. *Prerequisite:* 50.101 or equivalent.

50.384 Fundamentals of Video Engineering (3) Principles and practice in operation of video and digital technology. Television waveforms and system fundamentals, studio camera chain, video and audio signal distribution, and operation of studio equipment. Laboratory. Offered irregularly. *Prerequisite:* junior standing and permission of instructor.

50.390 Independent Reading Course in Audio Technology (1-6)

50.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

50.410 Sound Studio Techniques and Practice (3) Multitrack recording techniques as applied to professional sound systems. Studio consoles, magnetic tape recording, signal-processing equipment, room acoustics, noise reduction systems, multitrack recorder alignment, and test equipment. Usually offered every fall. *Prerequisite:* 50.313 or permission of instructor.

50.420 Advanced Sound-Studio Techniques (3) Studio set-up, microphone placement, acoustic theory, console patchbay theory and practice, signal processing devices, equalizers, and limiters. Students participate in a recording session in which the set-up and the operation are individually assigned and evaluated. Usually offered every spring. *Prerequisite:* 50.410.

50.490 Independent Study Project in Audio Technology (1-6)

50.491 Internship (1-6)

Graduate and Advanced Undergraduate Courses

50.500 Digital Audio Technology I (4) An introduction to modern digital audio systems, with emphasis on the relevant principles of digital electronics. Primary topics are logic circuits, microcomputer architecture, and microprocessor programming. Other topics include converter and codec design and use, and coding systems. The course reviews number systems and introduces spreadsheet modelling and simple C programming. Laboratory work consists of simple circuit analysis and design and exercises in logical modelling. Usually of-

ferred alternate falls. *Prerequisite:* 50.312, 50.313, 50.322, 50.323, and 64.280, or permission of instructor. Prior or concurrent enrollment in 41.221 or 41.221 is recommended but not required.

50.501 Digital Audio Technology II (4) A continuation of 50.500, with emphasis on the theory and principles of the digital audio signal. Primary topics are digital filter design and implementation. DSP (Digital Signal Processing) and programming for DSP. The course includes an introduction to transform methods and signal analysis techniques. Application considerations include storage and transmission technologies and digital audio workstation design and use. Laboratory work consists of DSP hardware interfacing and programming, and quantitative signal and discrete system analysis. Usually offered alternate springs. *Prerequisite:* 50.500, or permission of instructor.

Physics

Undergraduate Courses

51.100 Physics for the Modern World 5:1 (3) The laws and rules that govern nature and the physical universe are beautiful yet mysterious. Physics is the science that tries to find these laws by observation, measurement, and testing of hypotheses. The course traces the development of the scientific method and work that forms the basis for studying mechanics, waves, sound, light, and electricity. Includes laboratory. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.150 Finite Mathematics as a prerequisite.

51.105 College Physics I 5:1 (4) General physics as defined as the study of the properties and interactions of matter and energy using scientific methodology. Provides a two-semester sequence with 51.205 College Physics II. The first semester covers a full range of topics in classical mechanics and in thermodynamics, including lab experiments in mechanics, heat, and sound. This course satisfies premedical requirements. Usually offered every fall. *Prerequisite:* 41.170 or equivalent.

51.110 University Physics I 5:1 (4) General physics as defined as the study of the properties and interactions of matter and energy using scientific methodology. Provides a two-semester sequence with 51.210 University Physics II for students who want to use calculus-based mathematical methods in solving physical problems. The first semester covers a full range of topics in classical mechanics and thermodynamics, including lab experiments in mechanics, heat, and sound. Usually offered every fall. *Prerequisite:* 41.221 or concurrent registration.

51.205 College Physics II 5:2 (4) Second semester of general physics, following 51.105. Incorporates the standard topics in electricity and magnetism (fields, potentials, DC and AC circuits, electromagnetic waves), geometrical and physical optics, and an introduction to quantum physics. Includes lab experiments in electricity, magnetism, light, and sound. This course satisfies premedical requirements. Usually offered every spring. *Prerequisite for all students, and for General Education credit:* 51.105.

51.210 University Physics II 5:2 (4) Second semester of general physics, following 51.110, for students who want to use calculus-based mathematical methods in solving physical problems. Incorporates the standard topics in electricity and magnetism (fields, potentials, DC and AC circuits, electromagnetic waves), geometrical and physical optics, and an introduction to quantum physics. Includes lab experiments in electricity, magnetism, light, and optics. Usually offered every spring. *Prerequisite:* 41.221, and, for General Education credit, 51.110.

51.220 Astronomy 5:2 (3) Theories of the formation of the universe, its structure and evolution over time. Stars, planets, and galaxies are born and change over the years; supernovae, neutron stars, pulsars, black holes, quasars, and solar systems are formed. Usually offered every term. *Prerequisite for General Education credit:* 51.100 or 51.110 or 51.105 or 15.100 or 15.110 or 57.115.

51.230 Changing Views of the Universe 2:2 (3) Study of science as a tradition that shaped and was shaped by the Western world. This is a course about science—how scientific thought, practice, and culture developed. It explores changing concepts in the physical sciences from their earliest roots to modern times, and discusses the interaction between the physical sciences and other aspects of society. Usually offered every fall. *Prerequisite for General Education credit:* 07.100 or 29.100 or 60.105.

51.330 Classical Mechanics (3) Vector analysis. Newton's laws and dynamics of particles. Harmonic oscillator. Conservative systems. Gravitational forces and potential. Central fields and the motions of planets and satellites. Relativity. Elements of mathematical physics. Usually offered every fall. *Prerequisite:* 41.223, which may be taken concurrently, 51.110, or permission of instructor. *Note:* not open to students who have taken 51.502 Classical Mechanics.

51.350 Electricity and Magnetism (3) Electrostatics, potential theory, magnetic fields, Faraday and Ampere's laws, dielectric magnetic media, and Maxwell's equations. Usually offered every spring. *Prerequisite:* 41.223 and 51.210. *Note:* not open to students who have taken 51.503 Electricity and Magnetism.

51.370 Modern Physics (3) Electrons, protons, and structure of matter: a historic view. The Rutherford-Bohr atom and elements of quantum mechanics and their applications to atomic, nuclear, and solid state physics. Usually offered every spring. *Prerequisite:* 51.210, 41.222, or permission of instructor. *Note:* not open to students who have taken 51.501 Modern Physics.

51.390 Independent Reading Course in Physics (1-6)

51.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

51.490 Independent Study Project in Physics (1-6)

Graduate and Advanced Undergraduate Courses

51.530 Mechanics (3) Newtonian dynamics; Hamilton's principle and Lagrange's equations; central force motion; rigid body dynamics; oscillating motion; Hamilton's equations and phase space; Hamilton-Jacobi equation. Usually offered every fall. *Prerequisite:* 51.330.

51.540 Experimental Physics (3) Lectures and Laboratory. Selected experiments to accompany advanced undergraduate and core graduate courses in mechanics, electricity and magnetism, acoustics, optics, and modern physics. Students plan and complete experiments that fit their background and previous training. Usually offered every spring. *Prerequisite:* 51.330, 51.350, and 51.370 or permission of instructor. *Note:* not open to students who have taken 51.452 Advanced Laboratory.

51.550 Electromagnetic Waves (3) Maxwell's equations and electromagnetic waves, reflection and refraction, interaction of light with matter, interference phenomena, and Huygen-Kirchoff diffraction theory. Fresnel and Fraunhofer diffraction, grating, and optical instruments. Offered irregularly. *Prerequisite:* 51.350. *Note:* not open to students who have taken 51.551 Electromagnetic Waves and Optics.

51.565 Basic Concepts in Statistical Physics (3) Statistical description of matter. Distribution functions, phase space, ensembles, statistical interpretation of thermodynamics, effects of quantization, and Maxwell-Boltzman, Fermi-Dirac, and Bose-Einstein statistics. Usually offered alternate springs. *Prerequisite:* 51.350.

51.570 Introduction to Quantum Mechanics (3) Wave mechanics, Schrodinger equation, potential barriers and potential wells, harmonic oscillator, operators, eigenfunctions, eigenvalues, degeneracies, angular momentum, hydrogen atom. Usually offered every fall. *Prerequisite:* 51.370.

51.571 Special Topics in Applied Quantum Mechanics (3) Topics include: atomic and molecular, solid state nuclear, and particle physics. Perturbation theory, magnetic moments, multi-electron atoms, transition rates and selection rules, and collision theory. Crystallography, electrical and magnetic properties of solids. Physics of nuclei and nucleons and their interactions, systematics of stable nuclei, radioactivity, and the fundamental interactions. May be repeated for credit in the same term; topic must be different. Usually offered every spring. *Prerequisite:* 51.570.

51.590 Independent Reading Course in Physics (1-6)

Graduate Courses

51.630 Mechanics I (3) Newton's laws of motion. Variational principles and Lagrange's equations. The two-body central force problem. Scattering in a central force field. Kinematics of rigid body motion. The rigid body equations of motion. Methods of solving rigid body problems. Usually offered alternate falls. *Prerequisite:* 51.530.

51.631 Mechanics II (3) Small oscillations. Hamilton equations of motion. Hamiltonian transformations: integral invariants, symmetry principles, and infinitesimal transformations. Liouville's theorem. Hamilton-Jacobi theory and wave mechanics. Lagrange and Hamilton formulations for continuous systems. Usually offered alternate springs. *Prerequisite:* 51.630.

51.650 Electromagnetic Theory I (3) Electrostatics: experimental laws, Gauss's and Green's theorems, and Poisson and Laplace equations. Magnetostatics: Law of Biot and Savart, Ampere's Law, and vector potential. Time-varying fields: Faraday's law, Maxwell's equation, and Poynting's theorem. Radiating systems: Lienard-Wiechert potentials, multipole fields, and wave scattering. Usually offered alternate falls. *Prerequisite:* 51.550.

51.651 Electromagnetic Theory II (3) Einstein's two postulates; Lorentz transformations; Thomas precession; invariance of electric charge and covariance of electrodynamics; relativistic Hamiltonians and Lagrangians; Darwin and Proca Lagrangians; conservation laws and motion in uniform fields; and scattering and absorption of radiation by a bound system. Usually offered alternate springs. *Prerequisite:* 51.650.

51.670 Quantum Mechanics I (3) Experimental background to quantum mechanics. Schrodinger equation, eigenfunctions and eigenvalues, one-dimensional problems, WKB approximations, general principles of wave mechanics, central potentials, hydrogen atom, and scattering. Usually offered every fall. *Prerequisite:* 51.570 or 51.571, which may be taken concurrently.

51.671 Quantum Mechanics II (3) General formalism of quantum theory; angular momentum and spin; identical particles and stationary perturbations; time-dependent perturbation theory, and variational method. Usually offered alternate springs. *Prerequisite:* 51.670.

51.690 Independent Study Project in Physics (1-6)

51.691 Internship (1-6) May be repeated for credit in the same term; topic may be the same.

51.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

51.780 Research Seminar in Physics (3-6) Various topics in advanced physics with contents selected according to need. May be repeated for credit either in the same term with a different topic or in a different term with the same topic. Offered irregularly. *Prerequisite:* permission of instructor.

51.795 Research Training Seminar (1-6) Usually offered every term.

51.797 Master's Thesis Seminar (1-6) Usually offered every term.

51.799 Doctoral Dissertation Seminar (1-6) Usually offered every term.

Government

Undergraduate Courses

53.105 Individual Freedom vs. Authority 2:1 (3) The study of major philosophical discussions of the conflict between individual freedom and authority with analysis of the relation between this conflict and the problem of organizing a government. Usually offered every term.

53.110 Politics in the United States 4:1 (3-4) This course combines a study of major philosophical concepts that shaped government in the United States with an analysis of contemporary political institutions and behavior, focusing on the American governmental system. Four-credit sections include Washington laboratory experiences. Usually offered every term.

53.120 Introduction to American Politics (3-4) Pluralism, constitutional bases of government, political participation and elections, and the major national institutions involved in policy making. Usually offered every term.

53.130 Comparative Politics 3:1 (3) How different societies, both Western and non-Western, have approached the political problems of order and responsiveness. The relationships, in a cross-cultural perspective, between the individual and the state; social and economic processes; culture and behavior. Usually offered every term.

53.210 Political Power and American Public Policy 4:2 Introduction to political power and how the domestic policy process works; how to evaluate American domestic policy; and the content of several major domestic policies such as energy, environment, health, education, welfare, economic stability, labor, and justice and social order. Usually offered every term. *Prerequisite for General Education credit:* 19.100 or 53.110.

53.215 Civil Rights and Liberties 4:2 (3) The legal, political, and philosophical status of rights and liberties protected under the Constitution and laws of the United States; how political processes affect the definition of rights. Usually offered every term. *Prerequisite for General Education credit:* 53.110 or 73.100 or 54.105.

53.231 Third World Politics (3) Political order and change in selected countries in Africa, Latin America, and Asia, emphasizing nation building, ideology, development, and the role of the military. Usually offered every fall and spring.

53.232 Politics of Industrial Societies (3) Comparative study of participation, public policy, and policy making in industrial societies. The effects of technology and science on values and social change. Usually offered every term.

53.235 Dynamics of Political Change 3:2 (3) Theoretical perspectives on political change together with case studies of societies in which the status quo has broken down. Emphasis on the political, cultural, social, and psychological aspects of domestic crisis and revolution, with the objective of increasing awareness and appreciation of other nations and their struggles. Usually offered every term. *Prerequisite for General Education credit:* 53.130 or 29.120 or 33.110.

53.240 Metropolitan Politics (3) The growth of cities and metropolitan areas. Evolution of the city and its surrounding areas as a focus of public policy. Analysis of decision-making techniques, intergovernmental relations, and ethnic politics. Implications of financial resources and suburban attitudes on metropolitan politics and policy making. Usually offered every term.

53.303 Ancient Political Thought (3) An in-depth approach to political philosophy beginning with the pre-Socratics and extending through the Platonic dialogues, Aristotle, and Roman civil law. Meets with 53.603. Usually offered every fall.

53.305 Modern Political Thought (3) Works of major political theorists from the sixteenth to the twentieth century and their application to current questions of theory and method. Included are Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Mills, Hegel, Marx, and others. Meets with 53.605. Usually offered every spring.

53.306 American Political Thought (3) Concepts and theories on the nature and operation of American politics and government. Meets with 53.606. Offered irregularly.

53.307 Dissent, Conscience, and Authority (3) The dilemma posed by the conflict between conscience and authority that adheres at every level of society (the family, the classroom, the work place, the civic group, as well as governmental agencies and the military) is examined from a social-science perspective. Usually offered every fall.

53.310 Introduction to Political Research (3) An introduction to political science research, including the logic of analysis, research design, and the basics of quantitative analysis. Application of gathering data and of analytic and statistical techniques to contemporary

political problems. Usually offered every term. *Prerequisite:* one course in political science.

53.315 Elections and Voting Behavior (3) The role of public opinion, interest groups, social movements, and political parties in plural societies. Problems in political participation, communication, representation, and leadership. Usually offered every term. *Prerequisite:* junior or senior standing, or permission of instructor.

53.320 The Presidency (3) The role of the presidency in the political system, including presidential power, personality, response to public opinion, interaction with the cabinet and bureaucracy, Congress, and political parties. Usually offered every term.

53.321 Congress and Legislative Behavior (3) Congressional behavior, Congress as an institution, and the role of Congress in policy making. Includes field research on Capitol Hill. Usually offered every term. *Prerequisite:* 53.110 or 53.120.

53.322 American Political Parties (3) Party organization, the party in the electorate and government, party reform, and the future of American parties. Research on parties in Washington. Usually offered every spring. *Prerequisite:* 53.110 or 53.120 or 53.315.

53.331 The Military, Authoritarianism, and Party Politics (3) Politics, theory, and practice of modern totalitarian and authoritarian systems. Communism, fascism, nazism, corporatism, and praetorianism. Usually offered every fall. *Prerequisite:* a course in comparative politics or a relevant history course.

53.335 Democratization, Participation, and Social Movements (3) The background and major issues of twentieth century political thought; the concept, nature, and functions of ideology; and major contemporary doctrines. Usually offered every fall. *Prerequisite:* a course in history of ideas, philosophy, or theory recommended.

53.350 Constitutional Law I: Powers and Federalism (3) The nature of constitutionalism and the role of constitutional interpretation; judicial power and review. Supreme Court decisions and their effect on the development of the American political system. Usually offered every term. *Prerequisite:* 53.110 or 53.120 or 53.302/53.306 or 53.352.

53.352 Law and the Political System (3) Basic concepts of law and the American legal system. Analysis of the role of courts in the policy-making process. Problems of law enforcement and the correctional system. Usually offered every term.

53.360 Political and Organizational Leadership (3) Examines major theories and research in public leadership, with emphasis on American political and administrative institutions. Case-studies of leaders and leadership in complex public organizations. Relative impact of personality and organizational factors in leadership development. Emphasis on students' awareness of their own leadership style and development potential. Usually offered every spring. *Prerequisites:* junior standing and concurrent registration in 53.361.

53.361 Laboratory in Leadership Development (3) Structured and unstructured exercises designed to increase the student's leadership skills, including awareness and capability in communication; group dynamics; value clarification; the development of vision; managing emotions in leadership situations; bargaining and negotiation; and the relationship of personal growth to leadership roles and functions. Usually offered every spring. *Prerequisite:* junior standing and concurrent registration in 53.360.

53.370 Formation and Implementation of Environmental Policy

(3) An introduction to the issues, institutions, and processes that determine environmental policy in the United States. Environmental policy formation, implementation by administrative agencies, and the resolution of environmental disputes. Usually offered every fall.

53.390 Independent Reading Course in Government (1-6)

53.391 Internship (1-6) Specially arranged with the director of undergraduate academic counseling in interest groups, congressional offices, and government agencies. Weekly seminar. Usually offered every term. May be repeated for credit within the same term; topic must be different. *Prerequisite:* second-semester sophomore standing and 53.210, 53.321, or 54.260.

53.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

53.407 Feminist Political Theory (3) How does taking gender into account change our understandings of the "political," justice, equality, citizenship, and the purpose of political community? How are gender attitudes implicit in our views of welfare, the military, and economic organization? In addition to a sampling of non-feminist and anti-feminist work, this course explores both the differences and the commonalities among feminist theorists. Usually offered every spring. *Prerequisite:* one course in political theory or 76.300.

53.410 Washington Semester in American Government and Politics Seminar I (4) Selected students from the university and cooperating institutions study the U.S. government in action through seminars, conferences, lectures, and guided seminar evaluations of experience. The research project is an individual report prepared under the guidance of the academic directors of the program. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.411 and 53.412.

53.411 Washington Semester in American Government and Politics Seminar II (4) See 56.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.410 and 53.412.

53.412 Washington Semester in American Government and Politics Research Project (4) See 53.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.410 and 53.411.

53.413 Washington Semester Research Project (4) Independent research project prepared under the guidance of the Washington Semester faculty. May be repeated for credit but not within the same term; content must be different. Usually offered every fall and spring. *Prerequisite:* open to Washington Semester students only.

53.416 Washington Semester in American Government and Politics Internship (4) Open only to students in the Washington Semester program, as arranged with their academic directors. Usually offered every fall and spring.

53.423 Advanced Studies in Public Policy (3) Seminars on such topics as hunger, poverty, housing, education, job training, health care, unemployment, welfare, and conservation. May be repeated for credit within the same term; topic must be different. Usually offered every fall and spring. *Prerequisite:* 53.110, 53.120, or 53.210.

53.425 Government Regulation and Deregulation (3) The impact of federal regulation and deregulation on American life; the complex interactions between the public and private sectors; corporate and consumer lobbying; the effects of trade laws; and antitrust policy. Usually offered every term.

53.432 Political Institutions and Processes in Selected Countries

(3) The nature of political institutions and processes of specific countries, such as Great Britain, Germany, France, the former Soviet Union, Israel, Iran, Greece, India, Turkey, and Mexico. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* 53.130 or 53.231 or 53.232 or 53.330 or permission of instructor.

53.434 London Semester: British Politics and the European Union 3:2 (3)

Two part seminar with the London Semester Program academic director and guest speakers drawn from many walks of British political life. Focuses on political parties, Parliament, pressure groups, Cabinet and Whitehall, law and justice—all in the context of Britain's membership in the European Community. Required of all London Semester students. Usually offered every term. *Prerequisite for General Education credit:* 33.105 or 53.130.

53.435 London Semester Internship (4) Students work up to twenty hours a week in British institutions under faculty supervision. Usually offered every term.

53.438 Italian Political Thought since World War II (3) A study of major Italian political institutions, political movements, and leaders. The course consists of classroom lectures and on-site seminars led by current Italian political leaders. Taught in Rome. Usually offered every term.

53.455 Equal Protection (3) Examination of the evolution of federal civil rights law and modern interpretations of the major statutory and constitutional provisions that guarantee equal protection. Emphasis is on constitutional development under the Fifth and Fourteenth Amendments and major congressional legislation that bans discrimination in employment, education, housing, etc., based on race, ethnic origin, gender, religion and color. Also examines emerging legal developments intended to prohibit discrimination on the basis of sexual orientation and physical or mental disability. Usually offered every fall. *Prerequisite:* 53.215 or 53.350.

53.461 Politics in the Television Age (3) The relationship between television and American politics. Topics include the concept of news; the changing role of television; the politics of newsmaking; the election campaign and the emergence of the political consultant; "telediplomacy"; and research tools for analyzing television news. Usually offered every term. *Prerequisite:* an introductory course in American politics.

53.463 Politics and the Cinema (3) Through analysis of the images and symbols inherent in contemporary motion pictures, students are able to consider not only the developed political ideologies, but also the psychological dimensions of political action and inaction. Usually offered every spring. *Prerequisite:* an introductory course in American politics.

53.480 Honors Senior Seminar in Political Science I (3) A capstone experience for honors students in Political Science and CLEG. Designed to facilitate the integration of knowledge in the field of political science. Development and oral defense of significant research projects. Usually offered every fall. *Prerequisite:* permission of instructor.

53.481 Honors Senior Seminar in Political Science II (3) For description, see 53.480 above. Usually offered every spring. *Prerequisite:* permission of instructor.

53.489 CLEG Seminar (3) Selected topical issues cutting across the disciplines of communication, law, economics, and political science. Primarily for students majoring in the interdisciplinary major in CLEG (Communication, Legal Institutions, Economics, and Government). Examples of issues are communication law and regulation, First Amendment rights and the media, and United States trade policy. May be repeated for credit, but not within the same term; topic must be different. Usually offered every spring.

53.490 Independent Study Project in Government (1-6)

53.492 Seminar for Teaching Assistants (3-4) Exclusively for those who serve as teaching assistants in the Washington Laboratory, this course focuses on curriculum planning, group dynamics in classroom and field-trip settings, role differentiation, and evaluation of student performance. Enhances leadership and communication skills. Usually offered every fall. *Prerequisite:* permission of instructor.

Graduate and Advanced Undergraduate Courses

53.520 Advanced Studies in Campaign Management (1-4) Institute and advanced workshops conducted by campaign professionals. The Campaign Management Institute is a two-week intensive course (four credit hours) offered in January and May on major aspects of political campaigning. Student teams present a simulated campaign plan to a professional panel. Advanced workshops (one credit hour) are offered both fall and spring in areas such as campaign media production and strategy, campaign fundraising, get-out-the-vote, and election analysis. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 53.120 or 53.110.

53.522 Studies in Political Behavior (3) Examples are personality and politics, and political socialization. Offered irregularly. *Prerequisite:* six credit hours of relevant coursework in political science or a related discipline.

53.523 The Art and Craft of Lobbying (1-4) Institute and advanced workshops conducted by lobbying professionals. The Lobbying Institute is a two-week intensive course (four credit hours) offered in January and May in major aspects of professional lobbying and political influence. Student teams, directed by mentors drawn from the lobbying profession, present a simulated lobbying plan to a professional panel. Advanced workshops (one credit hour) are offered regularly in specific lobbying areas such as grass roots lobbying, direct mail, interest group litigation, executive branch lobbying, and congressional testimony. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 53.110 or 53.120.

53.524 Congressional Studies (3) Examples are Congress in transition, information sources on the Hill, congressional-executive relations, legislative research skills, and legislative rules and procedures. May be repeated for credit in the same term; topic must be different. Offered irregularly.

53.525 Congress and the Executive (3) Relations between the Congress and the executive branch (president and bureaucracy) with respect to congressional oversight, legislative support of presidential programs, institutional liaison arrangements between Congress and the executive, and reforms in Congress bearing on the changing relationship between the two branches. Usually offered every spring.

53.526 U.S. Intelligence Community (3) This course examines the agencies which make up the intelligence community and activities in which those agencies engage: collection of intelligence, counter-

intelligence, covert action, and analysis. The sources of conflict between members, direction and management of the community, secrecy and public control, and proposals for reform are also covered. Guest participants from research institutes and government; independent authors. Usually offered every spring.

53.532 Political Institutions and Processes in Selected Regions (3) Comparison of political institutions and processes of countries within specific regions such as Central America, Latin America, Western Europe, Eastern Europe, the Middle East, North Africa, Africa, South Asia, or Southeast Asia. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* 53.130 or 53.231 or 53.232 or 53.330 or permission of instructor.

53.540 Political Parties, Interest Groups, and Lobbying (3) The roles, functions, and changing nature of political parties and interest groups in American politics, the impact of political party reforms on the parties, and the ways in which parties and interest groups shape public policy. Usually offered every spring.

53.541 The Politics of Mass Communication (3) Effects of mass communication on all levels of political life in modern societies; including socialization, participation, information, and opinion. Analysis of the relationship between mass communication and politics within a comparative context, i.e., societies with differing media structures (predominantly commercial, public, or state systems). Usually offered every spring.

53.550 Politics in Cuba (3) An examination of the social, economic, and political roots of the Cuban revolution of 1959 and the changes brought about in Cuban politics and society as a result of the revolution. Usually offered every fall.

53.560 Intergovernmental Relations (3) The political, fiscal, and administrative relationships which help to shape the complex intergovernmental system. Federal, state, local, and other jurisdictions are examined concerning their effect on intergovernmental systems. Usually offered every fall and spring. *Prerequisite:* 53.120 or 53.110 for undergraduates.

53.590 Independent Reading Course in Government and Political Science (1-6)

Graduate Courses

53.603 Ancient Political Thought (3) A consideration of the principles that differentiate pre-modern political thought from modern political thought. Readings include Aristophanes, Plato, and Aristotle. In alternate years, such authors as Thucydides, Xenophon, Cicero, Plutarch and others are considered selectively. Meets with 53.303. Usually offered every fall.

53.605 Modern Political Thought (3) Political science as systematic inquiry. Works of political theorists from Machiavelli to the twentieth century; applications to current questions of theory and method. Meets with 53.305. Usually offered every spring.

53.606 American Political Thought (3) Concepts and theories on the nature and operation of American politics and government. Meets with 53.306. Offered irregularly.

53.610 Introduction to Quantitative Methods in Political Science (3) Application of techniques of bivariate analysis to measurement of political behavior, emphasis on techniques relevant for political scientists and students of public administration. Usually offered every fall.

53.611 Political Research (3) Analysis and investigation of political and social problems. Emphasis on theory construction as a guide to research formulation, methods of research, and empirical testing of research questions. Usually offered every spring. *Prerequisite:* 53.650.

53.612 Conduct of Inquiry I (3) Concepts, approaches, and methodologies of research in political science and public administration; probability, sampling; quantitative data analysis, including hypothesis testing and estimation; qualitative data analysis and measures of association. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program or permission of the director of doctoral programs.

53.613 Conduct of Inquiry II (3) Continuation of 53.612. The use of bivariate and multivariate analysis in political and administrative research; analysis of organizational decision models. Usually offered every spring. *Prerequisite:* admission to Ph.D. program or permission of the director of doctoral programs.

53.614 Research in Political and Administrative Behavior (3) The use of survey research and case studies for the study of political and administrative behavior. Instruction in the use of the computer as an aid in political and administrative research. Usually offered every spring. *Prerequisite:* admission to Ph.D. program or permission of the director of doctoral programs.

53.615 Qualitative Research Methods (3) A survey of political science research methodologies focussing on qualitative, theoretical, and empirical alternatives to positivistic approaches, based on new philosophies of science such as scientific realism. Includes alternative means of data development, cultural, structural and functional theories applicable to political research, and theory testing. Usually offered every spring. *Prerequisite:* admission to Ph.D. program or permission of the director of doctoral programs.

53.620 Applied Politics and American Public Policy (3) Examination of the content and dynamics of American public policymaking, with emphasis on how the domestic policy process functions, how to evaluate policy, and how to assess the different components of various policy domains. Explores the relationship between applied political action and the formation and implementation of public policy. Usually offered every fall. *Prerequisite:* admission to the master's program.

53.632 Classics of Comparative Politics (3) This course provides a broad overview of major issues in comparative politics though analysis of the most important scholarship in the field. Course topics include political economy, political culture, ethnicity and nationalism, democratization, the changing role of the state, and revolutionary and peaceful political change. Usually offered every fall.

53.633 Political Institutions in Comparative Perspective (3) The study of political institutions including political parties, interest groups, electoral behavior, legislatures and executives; also examines political economy, neoinstitutionalism, theories of state and society, and formal modeling. Usually offered alternate springs.

53.634 Democratization: Past, Present, Future (3) This course examines the social, economic and political conditions that promote democratization, the causes of the recent wave of democratization, the problems of democratic transition and consolidation, and the future prospects for democracy. Topics include economic prerequisites, the institutional structures of stable democracies and the challenges from ethnic conflict. Usually offered every third spring. *Prerequisite:* 53.632 or 53.730.

53.635 Social and Political Movements, Ethnicity and Nationalism (3) This course examines a range of social and political movements from a comparative perspective. It explores both theoretically and empirically the topics of political change, social movements, the religionization of politics, ethnicity and politics, nationalism, revolution, gender and political change, informal politics, non-state actors, transnational networks and movements and civil society. Usually offered alternate springs. *Prerequisite:* admission to master's or Ph.D. degree program.

53.637 Comparative Politics: Regions in Comparative Perspective (3) Special topics dealing with the former Soviet Union, Western Europe, the Middle East, Africa, communist China, Japan, and others. May be repeated for credit within the same term: content/topic must be different. Offered irregularly.

53.650 Political Analysis (3) Methods of scientific analysis, including research formulation, hypothesis generation and testing, quantitative analysis, and computer techniques. Usually offered every fall.

53.651 The Legislative Process (3) The function of the legislative branch in the American governmental system. Emphasis on Congress and comparison with state legislatures. Usually offered every spring.

53.652 The Presidency and the Executive Branch (3) Analysis of presidential roles and of the function of the federal executive branch. Presidential personality, executive-legislative relations, and policy formation. Usually offered every fall.

53.654 Political Behavior (3) An examination of the determinants of voting behavior, such as personality, beliefs and attitudes (including issue opinions and conceptual sophistication), political socialization, small groups and communication. Some attention to institutional and normative considerations. Uses survey research and case studies. Usually offered every fall.

53.656 Voting Behavior, Elections, and Campaigns (3) Political participation and behavior in U.S. primaries and elections, management of campaigns, mass media, and political organizations. Offered irregularly.

53.674 Constitutional Law and Politics (3) Involvement of American courts in such issues as legitimacy, conflict resolution, and representation; courts as political actors with respect to federalism; powers and limitations of government; advancement of individual and group interests and rights. Offered irregularly.

53.690 Independent Study Project in Government and Political Science (1-6)

53.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

53.704 Approaches to Political Understanding (3) Survey and analysis of alternative theories of knowledge in the social sciences. Epistemological norms of modern empiricism. The critique of empiricism. Linguistic analysis, phenomenology, ethnomethodology, hermeneutics, critical theory, structuralism, and post-structuralism. Application to the study of political science and public administration. Usually offered every spring. *Prerequisite:* admission to the Ph.D. program or permission of instructor.

53.710 Seminar in American Politics (3) Analysis of the operation of the presidency and the legislative branch and the impact of interest groups and parties on public policy. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. May be repeated for credit within the same term;

topic must be different. Usually offered every term. *Prerequisite:* admission to Ph.D. program or permission of instructor.

53.720 Seminar in Policy Analysis (3) Analysis of policy formation and implementation; different theories on the role of government in society; the science of program evaluation. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* admission to the Ph.D. program or permission of instructor.

53.730 Seminar in Comparative Politics (3) Analysis and critique of major theoretical approaches to the study of comparative politics in developed and developing worlds. Historical and theoretical foundations of the nation-state; political issues that arise from social change; and approaches to determining the relative autonomy of state institutions. Usually offered every fall. *Prerequisite:* open to Ph.D. students only.

53.799 Doctoral Dissertation Seminar in Political Science (1-12) May be repeated for credit; topic must be different. Usually offered every fall and spring.

Public Administration

Undergraduate Courses

54.260 Administrative Politics (3) An introduction to American public administration and the executive branch of government. Emphasis on the politics of administration and on the relationship of the bureaucracy with clientele groups, Congress, the White House, and the public. Usually offered every term.

54.343 Governmental Management (3) An introduction to the theory and practice of managing governmental agencies at the national level. Concentrates on administrative structures and processes. Examines the development of the federal bureaucracy and the potential for change in future directions on administration, hiring, and programs. Usually offered every fall. *Prerequisite:* 53.120 or 53.110.

Graduate and Advanced Undergraduate Courses

54.590 Independent Reading Course in Public Administration (1-6)

Graduate Courses

54.010 Introduction to Experiential Education and the Learning Community (0) An introduction to the concepts of experiential education. The group learning process is used to acquaint students with the core learning philosophy of the program. It includes an introduction to the learning community and the AU/NTL program. Usually offered every spring and summer. *Note:* required orientation for AU/NTL M.S. in Organization Development. No credit given toward degree requirement. Must be taken pass/fail.

54.600 Introduction to the American Political System (3) The foundations of the American democratic system, the role of government in the United States, and the contending forces in American national governmental policymaking. Demonstrates to students from other countries the differences between the nature of American government at the national level and other governments. Usually offered every term.

54.601 Methods of Problem Solving I (3) The use of analytical techniques to solve problems in policy analysis and public administration. Defining problems, choosing appropriate techniques, and un-

derstanding the limits of quantitative approaches. Usually offered every term.

54.602 Methods of Problem Solving II (3) Continuation of 54.601. Students improve their ability to analyze and solve public problems using analytical techniques. Usually offered every term. *Prerequisite:* 54.601.

54.603 Policy Formation (3) Explores the role of government in a democracy and examines various techniques for analyzing public policy and different approaches to the study of public policy formation. Analyzes the roles and relationships of individuals, groups, and government and non-government institutions on the formation of public policy. Also, utilizes the American governmental process, as a case study in public policy-making, to illuminate the theory and dynamics of the policy formulation process. Usually offered every spring.

54.604 Public Program Evaluation (3) Introduction to the elements of policy and program analysis for public program managers. Normative criteria for program evaluation; systematic strategies for assessing and measuring the effects of program elements and policy changes; and logic and limitations. Usually offered every spring and alternate summers.

54.606 Foundations of Policy Analysis (3) Distributional effects, externalities, and the role of risk and uncertainty in policy analysis. Criteria for choice, normative roles for analysis, and using information and social welfare criteria in making policy decisions. Usually offered every fall. *Note:* not open to students who have taken 53.682 Foundations of Policy Analysis.

54.607 Economics and Politics of Public Policy (3) Applies basic normative and positive theories of public policy learned in 54.606 Foundations of Policy Analysis to specific policy areas, including social welfare and regulatory policies. Topics include: environmental policy, education, welfare, health care, EEO and discrimination, transportation, cable TV, and drug policy, depending on student interests. Usually offered every spring. *Prerequisite:* 53.682 or 54.606.

54.608 Comparative Administrative Systems (3) An examination of governmental administrative systems in Europe, North and South America, Asia, and Africa. The focus is on these institutions as subsystems of national and international economic and political systems. The emphasis is on the comparative analysis of administration in capitalist industrialized nations, socialist nations, and the Third World. Usually offered every spring.

54.609 Policy Implementation (3) Examines how law and public policy, as expressed in statutes, are transformed into operating programs administered by bureaucracies. The goal of the course is to demonstrate the critical importance of the processes and structures of implementation in determining the outputs and outcomes of public policy. Usually offered every fall.

54.610 Public Management (3) Problems of management in public agencies: the activities of public managers; the different kinds of government agencies, their settings and tasks; the administrative methods used by public managers; and the applicability of these methods under various conditions. Usually offered every term.

54.611 Organization Planning and Control (3) An introduction to planning theory. Efforts at governmental planning in the United States, techniques used to develop and implement organization planning and control systems, and individual and group resistance to planning and the implications of this for public administration. Usually offered every year. *Prerequisite:* 54.610 or equivalent.

54.612 Politics of Administration (3) The external activities of public agencies; their relations with other agencies, legislative bodies, interest groups, citizens, advisory committees, and other levels of government. Administrative ethics and the mechanisms for holding public administrators accountable, e.g., legislative oversight, sunshine and sunset laws, reorganization, and the press. Usually offered every year.

54.613 Administration of International Programs (3) Organizational and administrative problems of program management in an interdependent world. The administration of government programs in developing countries and the management of international organizations. The effects of development programs and the consequences of alternative management strategies. Usually offered every fall.

54.614 Development Management (3) The problems of administering public programs in developing countries and the methods by which development projects are carried out. For foreign students who will be returning to developing countries as well as for Americans interested in international administration. Usually offered every spring.

54.616 Legal Issues in Public Administration (3) An introduction to legal issues facing public managers. After an introduction to the legal basis of public administration, including the empowerment process, administrative procedures, and judicial review, students focus on legal issues in client relations, administrative ethics, personnel management, and general administration. Usually offered every term.

54.618 Management Workshop (3) Professional training in management skills such as group and personal interaction and effective speaking. Along with other designated workshops, laboratories, and institutes, the course satisfies the management-skills requirement in the M.P.A. program. May be repeated for credit in the same term; topic must be different. Usually offered every term.

54.619 Personnel Administration and Ethics in Government (3) Managerial discretion, particularly at the federal level, with regard to the personnel management areas of position management, staffing, labor-management relations, performance appraisal, training, recognition, and discipline; and ethics and values, including consideration of conflict of interest, ends and means, deception and various degrees of untruth. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.621 Executive Management (3) Based on the profession of public administration and relevant contributions from the business world, this course provides instruction in the principles of managing programs, projects, and other large-scale organizational activities. Classical and modern approaches to executive management are analyzed in areas including planning, organizing, staffing, program implementation, evaluation, and control. The different characteristics of government organizations are emphasized, along with the constraints that these create for public executives and the ways they can respond. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.622 Leadership for Key Executives (3) Focusing on the leadership skills of each member of the class, this course is designed to sharpen the capabilities of key executives to lead and manage other personnel. Key executives examine their own managerial style, methods of communication, techniques of motivation, delegation of work, and approaches to group leadership. Class exercises are used to illustrate research findings from the behavioral sciences. Usually

offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.623 Executive Problem Solving (3) In this course key executives study the methods for gathering and analyzing information in ways that lead toward more effective and accurate decisions. Specific techniques for analyzing public policies and evaluating agency performance are examined. During this course each key executive develops a prospectus for analyzing a program or activity within his or her own agency. Usually offered every summer. *Prerequisite:* open only to participants in the Key Executive Program.

54.624 Budgeting and Financial Management (3) The use of the executive budget as a device for management planning and control is the focus of this course on public financial management. Key executives develop their skills in understanding different budgetary systems, the elements of budget review and execution, and various strategies and tactics employed by participants in the budgetary process. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.625 Analysis and Evaluation Practicum (3) Key executives apply the principles taught in the program to administrative policy issues within their own agencies. Under the guidance of individual faculty advisers, participants conduct their own research, develop a written analysis of their findings, and participate in an oral defense of the methodology, conclusions, and implications of their projects. May be repeated for credit, but not within the same term. Usually offered every term. *Prerequisite:* open only to participants in the Key Executive Program.

54.626 Legal Issues in Public Administration (3) This course deals with the legal basis of government authority and the ways in which legal processes authorize yet limit executive action. Using statute and case law, key executives study the delegation of legislative power, rule-making, administrative appeals, and judicial review. Attention is focused on the legal issues in which key executives are most likely to become involved. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.627 Politics, Policy-Making, and Public Administration (3) Key executives examine the relationship of the legislative process, congressional oversight, and EOP/OMB review and approval to the administration of government policy. They study response to pressure groups, clientele groups, and the general public. Executives also address their relationship to political executives, the political basis of government organization, and the difficulties of interagency coordination. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.628 Executive Skill Modules (1-2) Participation in this program sequence is designed to improve the practical skills that top-level executives use on their jobs. Among the modules available to participants are computer literacy for executives, executive speaking, effective writing, and executive health and fitness. May be repeated for credit within the same term; topic must be different. Usually offered every fall and summer. *Prerequisite:* open only to participants in the Key Executive Program.

54.629 Symposium on Executive Management (2) This course focuses on the integration of the public executive role with the work of the organization from the macro, or institutional, perspective. As the capstone course, it focuses on the perspectives of executive man-

agement effectiveness that emerge from the four Key Executive Program study tracks. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.630 Public Managerial Economics (3) Microeconomic theory as a framework for understanding the problems of public managers. Resource scarcity, consumer behavior, production, cost, economics of efficient management, operation of product markets under competition and monopoly, labor markets, market failure, and public goods. Offered irregularly.

54.631 Financing Government Services (3) The theory and practice of public finance and revenue administration with emphasis on state and local government. Applied tax administration and managing other revenue sources; cash management and investing government funds, risk management, debt management including general obligation revenue bonds, user charges and intergovernmental grants. Usually offered every term. *Prerequisite:* 54.630 or equivalent.

54.632 Governmental Budgeting (3) Why budgeting exists, how it works, and who the main actors are. Decision-making theories; resource allocation strategies; program evaluation methods; quantitative aids; legislative and intergovernmental relations; organization and personnel needs; and economic ramifications of alternative fiscal and spending priorities. Usually offered every term.

54.633 Public Financial Management (3) An introduction to the fundamentals of financial management in government agencies, including the background necessary to understand basic concepts of government accounting, auditing, the budget cycle, budget execution, fund management, and financial statements. Usually offered every term.

54.635 Public Finance (3) This course develops a theoretical basis and a working knowledge of techniques needed to examine and evaluate public-sector activity. Topics include the role and size of the public sector, budget determination and forecasting, public expenditure evaluation and revenue structure, and intergovernmental relations. The course may include topics in development finance and debt management. Offered irregularly.

54.636 Public Financial Analysis (3) How to analyze the financial health of state and local governments and other public organizations and develop remedies for financial problems. Financial condition is related to expenditure, revenue, and borrowing decisions; the economic base and needs of the community; capital markets; public employees; and the overall economic system. Usually offered every fall. *Prerequisite:* two courses in public financial management.

54.637 Public Managerial Macroeconomics (3) An introduction to macroeconomic theory and applications as a basis for understanding the financial environment of public management. Basic models for short- and long-run forecasting of revenue and expenditures. The business cycle and political theories for explaining fiscal patterns at the federal, state, and local levels. Credit markets, interest rates, and debt management. Offered irregularly. *Prerequisite:* 54.630 or equivalent.

54.640 Leadership (3) This course deals with significant theories of leadership and human motivation that have shaped current applications in human resources. Emphasis is on those aspects of humanistic psychology most applicable to individual and group behavior in management. Usually offered every term. *Prerequisite:* open only to participants in the M.S. in Organization Development or Personnel and Human Resources Management programs.

54.641 Methods of Problem Solving (3) An introduction to quantitative methods of analysis and problem solving. Students learn about different applications to training and organization development such as assessing training needs, evaluation designs, and survey techniques. Usually offered every term. *Prerequisite:* open only to participants in the M.S. in Organization Development or Personnel and Human Resources Management programs.

54.642 Organization Dynamics (3) This course focuses on the structure and dynamics of organizations as complex systems. It also emphasizes the interaction of technology and environment with organizational action. Topics include organizations as dynamic open systems, organizational design and structure, contingency theories of organization, conflict and coordination in organizations, and the relationship of the individual and the organization. Usually offered every term. *Prerequisite:* open only to participants in the M.S. in Organization Development or Personnel and Human Resources Management programs.

54.643 Interventions in Organizational Development (3) This course looks at a number of theories of change, including resistance to change. The course provides opportunities to understand and to experience large system interventions, which help to facilitate transformative change. Students work with the latest technologies to help bring about change in organizations and communities. Usually offered every spring and summer. *Prerequisite:* open only to participants in the M.S. in Organization Development program.

54.646 Consultation Skills (3) This course provides students with the opportunity to practice consultation with local clients. Students develop their skills in client contact, contracting, diagnosis, intervention, feedback and follow-up, team building, and the delivery of services to a client, and become clearer about their own consultation style and level of expertise. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

54.648 Group Theory and Facilitation (3) This course develops training skills and understanding of the basic theories of laboratory education and group dynamics. Each student diagnoses his or her training style and its effectiveness; learns about needs assessment techniques; develops design skills; and tests his or her diagnostic skills. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development or Personnel and Human Resources Management programs.

54.649 Studies in Human Resource Management (1-3) Rotating topics, including international human resource development; conflict resolution for human resource development; and building effective work teams for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

54.650 Leadership for Public Management (3) Students develop the theoretical knowledge, self-awareness, and skills to strengthen their leadership style and capacity. Topics include: theories and models of leadership, motivation, group behavior, power, communication, conflict, and organizational change. Students gain awareness of their interpersonal skills and effectiveness through structured experiences, instruments, and other classroom activities. Usually offered every fall and spring.

54.652 Building Effective Work Teams (3) Strategies and techniques from the behavioral sciences that are used to improve the effectiveness of individuals, teams, and organizations. Data collection and feedback, group process observation, team building, conflict management, and structural interventions are reviewed and practiced along with current applications, trends, and professional issues. Usually offered every fall.

54.653 The Individual and the Organization (3) This course focuses on three major frameworks for understanding productive and dysfunctional behaviors in organizations: the behavioral, B.F. Skinner; the psychoanalytic, Sigmund Freud and Carl Jung; and the humanistic, Carl Rogers. Students have an opportunity to apply these theories to their own lives and work situations. Usually offered every spring.

54.654 Managing Organization Change (3) Alternative theories and methods of intervention designed to bring about effective organization change. Students develop skills by applying theories and models to organization cases. Usually offered every spring. *Prerequisite:* 54.650 or equivalent.

54.656 Managing Diversity (3) Focuses on the challenges managers face as they learn to work creatively and effectively with a diverse, multicultural workforce. The dimensions of diversity and people who are different, and the ways to become a more innovative and appropriate manager of difference are examined and explored. Usually offered every summer.

54.658 Managing Conflict (3) This course addresses the dynamics of conflict in organizations at three levels: interpersonal, work group, and inter-group. The origins, manifestation, and evolution of conflict in organizations are examined. Classes intersperse experiential activities with discussions of cases and theory. Participants develop skills, knowledge, strategies, and self-awareness to use in diagnosing and managing conflicts at work. Usually offered every fall. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.661 Complex Organizations (3) An analysis of the structure and dynamics affecting the operation of large organizations. Organization culture, structure, decision making, environmental factors, life cycles, and change are among the topics examined. Offered irregularly.

54.665 Public Personnel Administration (3) Policies and managerial processes for dealing with governmental personnel, including staffing, personnel development, classification, performance appraisal, equal employment opportunity, and labor-management relations. Usually offered every year.

54.674 Practicum Research Project (3) The practicum focuses on an organizational problem in human resource development, and uses techniques (qualitative or quantitative or both) in organizational diagnosis, intervention and change, and evaluation. Students work under the guidance of a faculty mentor. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

54.675 Organization Analysis and Strategies (3) An introduction to planning theory; an overview of efforts at governmental planning in the United States; an analysis of the techniques used to develop and implement organizational planning and control systems; and an examination of individual and group resistance to planning and the implications of this for public administration. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

54.677 Introduction to Organizational Development (3) The practice of organizational development. Students are given an overview of the theory, terminology, and literature of organizational development, learn about various diagnostic and intervention tools, and have the opportunity to plan for the application of what they have learned in their own organizations. Usually offered every term. *Prerequisite:* open only to participants in the M.S. in Organization Development program.

54.679 Studies in Human Resource Development (1-3) Rotating topics, including labor relations for human resource development; organizational diagnosis and intervention for human resource development; personnel administration for human resource development; and institute on group and personal interaction for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

54.687 Urban Management (3) Council-manager relationships, work force staffing and development, the budget and community goals, ethical issues, management control, and external and regional effectiveness. Usually offered every fall.

54.690 Independent Study Project (1-6)

54.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

54.693 Practicum in Public Management and Policy Studies (3) Designed to give students one-on-one supervision and guidance for completing their master's thesis project. Students are individually assigned to a faculty member appointed by the director in accord with their expertise and knowledge in a particular field. Upon completion and presentation of the project report, the faculty adviser submits a final grade for the course. Successful performance in practical financial management projects is an essential ingredient of the program and a major factor in obtaining the degree. Offered irregularly. *Prerequisite:* open only to students in selected contract programs.

54.710 Seminar in Public Administration (3) An analysis of the various factors that contribute to the overall performance of the executive branch of government. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* admission to Ph.D. program or permission of instructor.

54.799 Doctoral Dissertation Seminar in Public Administration (1-12) May be repeated for credit within the same term; topic must be different. Usually offered every term.

Washington Semester

Undergraduate Courses

56.100/101 Washington Summer Seminar (2) Three-week residential program for advance college credit for high school juniors and seniors. Field study in one of five major components: American Government and Policy Making, U.S. Foreign Policy, Justice and Law in America, Media in America: Print and Broadcast Journalism, or Environmental Policy/Science. Daily seminars both on and off campus with political leaders, decision-makers, and full-time American University faculty. Usually offered every summer. *Prerequisite:* permission of the department.

Graduate and Advanced Undergraduate Courses

56.500/501 Washington Summer Internship (3-6) The Washington Summer Internship Program is designed to provide on-the-job training for college students from across the country in their respective fields of interest. Students work four and one-half days each week. The other half day is devoted to seminars with practitioners and small group discussions. Usually offered every summer. *Prerequisite:* junior, senior, or first-year graduate standing.

56.510 Washington Semester Internship Program (1-6) Students engage in a 35-hour per week internship providing direct experience in one of the following fields: National Government and Politics, Foreign Policy and International Affairs, Economic Policy and International Trade, Justice and Law, Print and Broadcast Media and Communication, or Arts and Humanities. Academic requirements include one class meeting each week, an on-going journal, two papers and a final group project/presentation. May be repeated for credit, but not within the same term: topic may be the same. Usually offered every spring. *Prerequisite:* permission of Washington Semester Program. Open only to non-AU students.

Psychology

Undergraduate Courses

57.105 Psychology: Understanding Human Behavior 4:1 (3) Survey of the social bases of behavior and the individual foundations of group and social behavior. The concepts and methodologies of psychology in such areas as social learning, motivation, personality, sex similarities and differences, and abnormal behavior. The interaction between the individual and social institutions is emphasized. Usually offered every term.

57.115 Experimental Foundations of Psychology 5:1 (3) Through lectures and computer exercises, students are introduced to the many experimental questions addressed in psychology (e.g., biological bases of behavior, conditioning and learning, perception, drug use and abuse) as well as to the specific methods used in psychological research and the general research approaches used in science. Usually offered every term. *Prerequisite:* completion of the University Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.150 Finite Mathematics as a prerequisite.

57.200 Behavior Principles 5:2 (3) The experimental analysis of behavior (EAOB) systematically relates a behavior's probability to its consequences (reinforcement and punishment). Principles derived from the EAOB are used to explain simple animal learning, stimulus control, behavioral sequences and patterning, verbal and other complex human behavior, and emotion. Issues raised by a behavioral approach to human conduct are discussed. Usually offered every term. *Prerequisite for General Education credit:* 57.115.

57.205 Social Psychology 4:2 (3) The processes of social thinking, such as the attribution of causality and the relation of attitudes to behavior; social influence, such as conformity, obedience, and persuasion; and social relations, including aggression, altruism, prejudice, and attraction. Focus on the individual in social settings. Research methods are emphasized. Usually offered every term. *Prerequisite for General Education credit:* 57.105 or 65.150.

57.215 Abnormal Psychology and Society 4:2 (3) Focuses on behavior labeled as abnormal by society. Abnormal behavior as a function of the individual's interaction with social institutions (family, school, legal sys-

tem, mental-health system, etc.). Introduction to the major concepts, theories, and issues of abnormal psychology. Usually offered every term. *Prerequisite for General Education credit:* 57.105 or 73.100.

57.220 The Senses 5:2 (3) An introductory discussion of why things appear as they do. Investigation of our perceptual experiences—their origins, refinements, interpretations, and applications. Discussion of scientific theory and research on the senses. Usually offered every term. *Prerequisite for General Education credit:* 09.110 or 51.100 or 51.105 or 51.110 or 57.115.

57.230 Theories of Personality 2:2 (3) Students explore and critically compare four major approaches to understanding uniqueness in human behavior, emotion, and thought: holistic, dynamic, learning, and trait/biological. Class debates, exercises, and a paper help students use these theories to understand their own and others' personalities. Usually offered every term. *Prerequisite for General Education credit:* 53.105 or 29.100.

57.240 Drugs and Behavior 5:2 (3) This introduction to psychoactive drugs and their effects includes an overview of general physiology, neurochemistry, and pharmacology as well as a survey of the basic physiological, pharmacological, and behavioral effects of drugs. The course focuses on the etiology and consequences of addiction and dependence. Critical evaluation of research methodology in drug assessment is stressed. Usually offered every term. *Prerequisite for General Education credit:* 57.115 or 09.100 or 15.100.

57.300 Cognitive Psychology (3) This course provides an overview of cognitive psychology and addresses such topics as attention, pattern recognition, perception, memory, language, and thinking. The so-called higher mental processes are studied through discussion of current empirical research, and through classroom demonstrations and development of pilot projects. Usually offered alternate falls. *Prerequisite:* 57.115 or equivalent or permission of instructor.

57.315 Self-Management (3) Principles of cognitive-behavioral self-control for achievement of personal goals. Self-management research is reviewed in weight loss, studying, self-esteem, giving up smoking, drug addiction, depression, time management, and enjoying oneself. Students conduct self-modification projects in group settings. Usually offered every spring and summer. *Prerequisite:* 57.105 and 57.215 or 57.230 or permission of instructor.

57.318 Fundamentals of Human Neuropsychology (3) Concerned primarily with the structure, organization, and function of the human brain and the manner in which it produces thoughts, feelings, movement, perceptions, language, and memories. Explores normal brain functioning as well as neurological disorders. Of particular value to students interested in cognition, psychopathology, neurology/medicine, and linguistics. Usually offered alternate falls.

57.320 Women and Mental Health (3) This course focuses on women's functioning. Topics include theories of the personality of women, common adjustment problems faced by women, and emotional problems prevalent in women. Usually offered alternate falls.

57.325 Neurobiological Bases of Behavior (3) Introduction to the biological bases of behavior. Topics include basic neurophysiology (activation of neurons and communication among cells); the basic organization of the nervous system; the role of the brain in receiving stimuli; and the neurobiology of motivated behavior, learning, and behavior disorders. Usually offered alternate springs. *Prerequisite:* 57.115 or permission of instructor.

57.333 Health Psychology (3) An exploration of how psychological theories and techniques can minimize unnecessary morbidity and premature mortality. Behavioral, cognitive, and affective targets for primary and secondary prevention efforts are identified from epidemiological theory and research. Ways in which psychological methods can contribute to provision of outpatient and inpatient medical services. Usually offered every fall. *Prerequisite:* 57.105 or equivalent or permission of instructor.

57.335 Psychology of Religion (3) Classic and contemporary views of religion from a psychological perspective. Review of research methodologies as well as major theorists including Freud, Jung, James, Rizzuto, Erikson, Otto, Gergenohn, Allport, Fromm, and Maslow. Usually offered alternate springs.

57.350 Child Psychology (3) Introduction to development from infancy through adolescence. Emphasis on theory and research in normal development: genetics, growth, and maturation; sensation and perception; motivation; cognitive and social functioning. Usually offered every term. *Prerequisite:* 57.105 or 57.115 or permission of instructor.

57.360 The Evolution of Behavior (3) Approaches to the study of animal and human behavior with emphasis on the explanation of these behaviors in light of ecology and evolution. Topics include aggression, language, sex differences, intelligence, development, learning, and instinct. Usually offered every spring. *Prerequisite:* 57.115 or 57.105 or permission of instructor.

57.370 Learning and Behavior (3) Research and theory in animal learning. Covers classical and instrumental conditioning. Ethology and biological constraints on learning. Usually offered alternate springs. *Prerequisite:* 57.115 or permission of instructor.

57.390 Independent Reading Course in Psychology (1-6)

57.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

57.400 Human Memory (3) This course explores how human memory works. Both theoretical and empirical work on topics such as sensory memory, short- and long-term remembering, rehearsal, forgetting, different types of memories, and memory tests. The latter part of the course concentrates on issues of current interest. Usually offered every spring. *Prerequisite:* 57.115 and 57.300 or permission of instructor.

57.410 Judgment and Decision Making (3) Considers human behavior by examining judgment and decision making. Judgment behavior includes predictions based on probability, such as weather forecasting. Decision making involves choosing between two or more alternative behaviors with unknown outcomes. Examines how people should and do make judgments, judgmental accuracy, and models of choice behavior. Usually offered alternate springs. *Prerequisite:* 42.202 or permission of instructor.

57.420 Adolescent Psychology (3) Study of adolescence as a period of transition. Topics include research and theory on hormonal, emotional, social, and cognitive development in adolescence. The influence of peer pressure, need for self-individuation, and problems of adolescence are also considered. Usually offered every spring. *Prerequisite:* 57.105.

57.425 Psychology of Eating Disorders (3) The study of theory, research, diagnosis and treatment as it pertains to nutrition, dieting, exercise, body image, obesity, anorexia nervosa and bulimia nervosa. Usually offered alternate springs. *Prerequisite:* 57.105 or 57.115.

57.430 Human Sexual Behavior (3) Basic physiological knowledge, sex education, sexual myths, premarital and marital sexual behavior, homosexuality, pornography, etc. Emphasis on psychological aspects of sex and sexuality. Usually offered every term.

57.433 Research Design and Methods: Social Science Psychology Research Introduces basic principles of psychological measurement and research design. Explains methods of identifying and developing reliable and valid psychological tests and behavioral observation systems. Reviews experimental and correlational research designs, as applied to social science areas of psychology (e.g. psychotherapy outcome research). Usually offered every fall. *Prerequisite:* 42.202 and either 57.105 or 57.115

57.440 Social Psychological Approaches to Clinical Issues (3) Examines applications of social psychology to clinical psychology. Topics include: using social psychology to understand disorders such as depression; applying social psychology to treatment issues, such as persuading people to remain in therapy; and considering diagnosis as a problem in social cognition. Usually offered alternate falls. *Prerequisite:* 57.205 or permission of instructor.

57.450 Psychology of Well-Being (3) An overview of the theory, research, and applications in the psychology of well-being. Core topics include self-esteem, relationships and intimacy, competence and achievement, crisis and loss, and meaning and values in life. Usually offered every spring. *Prerequisite:* 57.105 or 57.115.

57.456 Controversial Issues in Psychology (3) A seminar that considers some of the fundamental ideas in psychology through reading and discussion. Usually offered every spring. *Prerequisite:* permission of instructor.

57.470 Introduction to Clinical Psychology (3) The focus is on two major activities of clinical psychologists: assessment and clinical intervention (psychotherapy and program models). Topics also include the functions, history, training, and ethics of the profession. Usually offered every term. *Prerequisite:* 57.105 or 57.115 and either 57.215 or 57.230.

57.480 Research Design and Methods: Experimental Psychology (4) Data and research methods in core areas of psychology. Review of experimental design. Individual and group experiments. Usually offered every term. *Prerequisite:* 42.202 and 57.105 or 57.115.

57.490 Independent Study Project in Psychology (1-6)

57.491 Internship (1-3) Practical experience in a professional setting in the metropolitan area. For advanced psychology majors. Usually offered every term. *Prerequisite:* permission of instructor and department chair.

57.497 Topics in Psychology (3) Individual sections cover advanced topics in psychology and vary from semester to semester. Each section is an intensive course in a specialized area of psychology, such as community psychology, social and clinical judgement, and psychology of infancy. May be repeated for credit in the same term but topic must be different. Usually offered every term. *Prerequisite:* junior standing, three psychology courses and permission of instructor.

57.498 Senior Thesis Seminar (3) Students participate in research under the supervision of individual faculty (which should be arranged before enrolling). The proposal, analysis, and conclusions of this research are discussed among other students as well as with departmental faculty. May be repeated for credit but not in the same term; topic may be the same. Honors students are required to take two semesters. Usually offered every term. *Prerequisite:* permission of instructor.

Graduate and Advanced Undergraduate Courses

57.501 Physiological Psychology (3) Anatomical and physiological substrata of behavior. Usually offered alternate springs. *Prerequisite:* junior standing, two psychology courses, and permission of instructor.

57.502 History and Systems of Psychology (3) Philosophical and scientific background of modern psychology and contemporary problems of theory construction. Usually offered every fall. *Prerequisite:* 57.115 and senior standing.

57.505 Advanced Theories of Personality (3) A critical comparison of how trait, psychodynamic, social-learning, and phenomenological approaches to personality contribute to theory, research, and therapy. Usually offered alternate springs. *Prerequisite:* 57.230 or graduate standing or permission of instructor.

57.513 Neuropsychology: The Biochemistry of Behavior (3) Following an overview of central nervous system physiology, this class gives a detailed examination of the range of neurotransmitters involved in neural communication and modulation. Each neurotransmitter is described in the context of its biochemistry, distribution, pharmacology, and involvement in both normal and abnormal behavior. Usually offered every fall. *Prerequisite:* 57.105 and 57.115 or permission of instructor.

57.514 Industrial/Organizational Psychology (3) Application of psychological principles to the field of work. Topics include selection, training, evaluation, leadership, motivation, decision making, job attitudes and satisfaction, organizational structure and theory, and human factors. Usually offered every fall. *Prerequisite:* two psychology courses and one statistics course.

57.515 Biopsychology Laboratory Methods (4) Demonstration and practice of commonly used surgical, histological, and electrophysiological methods in biopsychological and neurobiological research. Usually offered alternate springs. *Prerequisite:* permission of instructor.

57.518 Advanced Human Neuropsychology (3) Explores the empirical, anatomical, and theoretical aspects of clinical and cognitive human neuropsychology. Topics include object and face recognition; spatial perception; voluntary action; language (oral, writing, and reading comprehension, word and sentence processing, speech production); problem-solving and calculation; memory; and dysfunctions (i.e., agnosias, apraxias, amnesias, and aphasias) illustrated with clinical case studies. Usually offered every spring. *Prerequisite:* permission of the instructor.

57.521 Ethnic and Minority Issues in Psychology (3) A review of ethnic and minority issues as they relate to testing, psychotherapy, research, and other aspects of scientific and professional psychology. Usually offered alternate springs.

57.530 Conditioning and Learning (3) Seminar for advanced graduate students in psychology. Advanced analysis of operations and principles developed through the systematic study of classical and operant conditioning. Topics are primarily in the area of operant conditioning. Usually offered alternate springs. *Prerequisite:* 57.200 or 57.370 or graduate standing.

57.533 Cognitive Behavior Therapy (3) This seminar examines critically the cognitive revolution in behavior therapy. We review the theoretical basis, clinical procedures, and empirical status of several major forms of cognitive behavior therapy, which share the premise that maladaptive thinking is at the core of psychological distress. Usually offered alternate springs. *Prerequisite:* graduate standing or permission of instructor.

57.540 Advanced Social Psychology (3) Psychological factors in human social behavior. Examination of research literature with emphasis on design and methodology. Theoretical problems in social behavior and current trends in experimentation. Usually offered alternate falls. *Prerequisite:* permission of instructor. *Note:* not open to students who have taken 57.640 Advanced Social Psychology.

57.545 Psychology of Sex Similarities and Differences (3) Examines the ways that the behavior of males and females are comparable by examining the psychological literature to understand what biological and social-cultural factors influence these behaviors. Considers what conclusions can be drawn from the existing data and what types of research should be done to further knowledge of gender issues. Usually offered alternate springs. *Prerequisite:* graduate standing or permission of instructor.

57.550 Psychological Research I (3) An in-depth examination of experimental design and methods of conducting research in clinical, social, experimental, and bio-psychology. Usually offered every fall. *Prerequisite:* 57.480 or graduate standing or permission of instructor.

57.551 Psychopathology: Theory and Research (3) Case-study seminar on psychopathological behavior. Focus on symptoms and syndromes from conflict/stress-defense model. Usually offered every fall. *Prerequisite:* permission of instructor.

57.560 Advanced Child Psychology (3) Current theoretical and research issues in child psychology. Areas of emphasis include socialization, affective development, and cognitive development. Students, from their readings and discussion, critically analyze existing data and formulate questions for further investigation. Usually offered alternate falls. *Prerequisite:* 42.202 and 57.350.

57.570 Behavioral Medicine (3) Acquaints students with psychological theory, research, and practical techniques for maintaining health, preventing dysfunctions, and remediate health problems. Topics include cognitive-behavioral techniques for cardiovascular risk reduction (smoking, obesity, stress, diet), exercise enhancement, time management, adherence to medical regimens, and problems with nervous, respiratory, gastrointestinal, and musculoskeletal systems. Usually offered every fall.

57.575 Human Cognition (3) After a short review of the field in general this course focuses on some specific issues, both theoretical and applied, that are of current interest in areas such as attention, perception, human memory, and thought processes. Usually offered alternate falls. *Prerequisite:* graduate standing or permission of instructor.

57.585 Advanced Human Memory (3) The primary emphasis is on present day memory research. After briefly reviewing a century of theoretical and empirical work in this area, we will tackle issues of current interest such as different kinds of memory, nonverbal memory, autobiographical memory, and several intriguing phenomena that continue to puzzle psychologists. Usually offered alternate springs. *Prerequisite:* permission of instructor.

57.590 Independent Reading Course in Psychology (1-6)

57.597 Topics in Psychology (3) Individual sections cover advanced topics in psychology and vary from semester to semester. Each section is an intensive course in a specialized area of psychology. May be repeated for credit within the same term; content/topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

Graduate Courses

57.609 Ethics and Professional Practices (3) Theoretical and conceptual questions and social problems in the area of ethics and professional practice. Ethical standards, codes, and legislation of psychologists and related professions, and ethical problems of community mental health are examined. Usually offered every summer.

57.618 Principles of Neuropsychological Assessment (3) Introduces theoretical and empirical principles of neuropsychological assessment. Emphasis on developing skills of behavioral and cognitive observation coupled with an understanding of the underlying functional organization of the human nervous system. Students study representative tests and, in the laboratory and/or in supervised clinical settings, practice their administration, scoring, and interpretation. Usually offered alternate falls. *Prerequisite:* 57.518 and permission of instructor.

57.630 Psychotherapy: Theory, Research, and Practice (3) A survey of research literature relevant to the therapist, the client, the relationship and process of psychotherapy. Major theoretical orientations and techniques are reviewed. Usually offered every fall. *Prerequisite:* permission of instructor.

57.633 Psychological Assessment I (3) Introduces students to basic principles of psychological assessment. Emphasizes conceptual issues much more than practical applications, though substantive psychological research is used to illustrate the concepts. Helps students learn how to critically evaluate, and contribute to, knowledge regarding measurement of psychological functioning. Usually offered every fall. *Prerequisite:* graduate standing.

57.652 Assessment of Intellectual Function and Personality (3) A review and close examination of major intelligence and personality tests including their theoretical base and psychometric qualities. Major focus is on practical issues of administration, scoring and interpretation of tests such as the WAIS-R, WISC-III, Rorschach, and TAT. Usually offered every spring. *Prerequisite:* enrollment in clinical psychology doctoral program.

57.680 Experiential Psychotherapy Practicum I (3) Interviewing techniques and practice in skills related to counseling psychotherapy by systematic exposure to critical elements in interviews through supervision and guided observation. Usually offered every fall. *Prerequisite:* permission of instructor.

57.681 Experiential Psychotherapy Practicum II (3) Continuation of 57.680. Usually offered every spring. *Prerequisite:* permission of instructor.

57.690 Independent Study Project in Psychology (1-6)

57.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. Usually offered every term.

57.698 Directed Research (3-6) Consult the department. May be repeated for credit in the same term; topic may be the same. Usually offered every term. May not be used in place of 57.796, 57.797, 57.798, or 57.799.

57.710 Behavior Therapy Practicum (3) Review of behavior therapy and cognitive-behavioral techniques. Supervision and co-therapy in application of techniques. Usually offered every spring. *Prerequisite:* Doctoral students in Clinical Psychology. *Note:* Not open to students who have taken 57.580 Behavior Therapy Practicum.

57.791 Psychodynamic Psychotherapy Practicum I (3) Usually offered every fall. *Prerequisite:* permission of instructor.

57.792 Psychodynamic Psychotherapy Practicum II (3) Usually offered every spring. *Prerequisite:* permission of instructor.

57.796 Master's Thesis Seminar (3) May not be repeated for credit. Usually offered every term.

57.797 Master's Thesis Research (1-3) May be repeated for credit, but not within the same term; topic may be the same. Usually offered every term. *Prerequisite:* 57.796.

57.798 Doctoral Dissertation Seminar (3) Usually offered every term.

57.799 Doctoral Dissertation Research (1-9) May be repeated for credit, but not within the same term; topic may be the same. Usually offered every term. *Prerequisite:* 57.798.

Philosophy and Religion

Philosophy

Undergraduate Courses

60.100 Introduction to Logic (3) Basic principles of inductive and deductive reasoning. Text and exercises supplemented by readings and discussions in history, philosophy, and applications of logic. Usually offered every term.

60.105 Western Philosophy 2:1 (3) A historical introduction to the Western philosophical tradition. Students closely examine classic and contemporary texts on the nature of reality, truth, morality, goodness, and justice; the possibility of knowledge; faith, reason, and the existence of God; and the issue of freedom and determinism. Usually offered every term.

60.200 Selected Basic Topics in Philosophy (3) Topics include: great ideas that changed history; moral choices in contemporary society; popular issues in philosophy; philosophy, psychology, and the emotions; and existentialism. May be repeated for credit in the same term; topic must be different. Offered irregularly.

60.210 European Philosophy and the American Experiment 2:2 (3) The founding documents of the American nation—the Declaration of Independence and the Constitution—are uniquely philosophical. Students examine the philosophical writings that influenced the authors of these documents, and analyze the documents against this background. Criticisms of the documents and current disputes about their proper role are considered. Usually offered every term. *Prerequisite for General Education credit:* 53.105 or 60.105 or 29.110.

60.220 Moral Philosophy 2:2 (3) The theories concerning the nature of goodness found in Western philosophy. The major topics of discussion are: traditional principles for evaluating goodness and telling right from wrong; the difference between fact and value; the justification of normative judgments; objectivity in ethics; and the relationship between moral and nonmoral goodness. Usually offered every term. *Prerequisite for General Education credit:* 60.105 or 73.110.

60.221 Philosophy, Politics, and Society (3) Theories of the nature of society and justification of social institutions. Critical study of such social problems as control of technology and the environment, education, militarism, racism, imperialism, civil disobedience, rebellion, and revolution. Usually offered every spring.

60.225 Ethical Issues in Government, Business, and Media 4-2

(3) The major types of ethical principles that affect individual behavior in public and private institutions. The constraints that organizational structures and technology impose on ethical decision making. Case studies of employee privacy, welfare rights, affirmative action, advertising and research ethics, professional ethical codes, exploitation, developmental ethics, just war theories. Usually offered every fall. *Prerequisite for General Education credit:* 53.110 or 65.150.

60.230 Meaning and Purpose in the Arts 1-2 (3) Leading theories of the nature, purpose, and meaning of artistic activities and objects examined through writings of philosophers, artists, and critics of ancient and modern times. Both Western and non-Western viewpoints are considered. Student projects apply critical ideas to particular works in an art form familiar to them. Usually offered every fall. *Prerequisite for General Education credit:* 05.100 or 23.105 or 23.135 or 67.110. Note: not open to students who have taken 60.330 Aesthetics.

60.300 Ancient and Medieval Philosophy (3) History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.600. Usually offered alternate falls.

60.301 Modern Philosophy from Bacon to Hegel (3) Modern Western philosophic ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth century Europe. No previous course in philosophy required, but students will find it helpful to have taken 60.300. Meets with 60.601. Usually offered alternate springs.

60.302 Nineteenth Century Philosophy (3) This is the first of two courses that explore the fundamental themes of contemporary Western philosophy and their relation to historical developments, such as the Industrial Revolution, and scientific developments, such as the Darwinian revolution. Among the topics covered are utilitarianism, pragmatism, Marxism, existentialism, and philosophy of science. Meets with 60.602. Usually offered every fall. *Prerequisite:* one introductory course in philosophy.

60.303 Twentieth Century Philosophy (3) This is the sequel to 60.302. It explores the fundamental themes of contemporary Western philosophy in view of historical developments, such as the world wars, and intellectual developments, such as Einstein's and Freud's discoveries. Topics covered include pragmatism, Marxism, existentialism, phenomenology, deconstructionism, philosophy of science, and analytic philosophy. Meets with 60.603. Usually offered every spring. *Prerequisite:* one introductory course in philosophy.

60.310 The Classical Period (3) Regularly recurring topics include: the pre-Socratics, Plato, Aristotle, Neo-Platonism, and Augustine. Meets with 60.610. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* 60.300 or permission of instructor.

60.311 Modern European Movements (3) Regularly recurring topics include: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian idealism. Meets with 60.611. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* one introductory course in philosophy.

60.312 Recent and Contemporary Philosophers (3) Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.612. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.313 Studies in Oriental Philosophy (3) Regularly recurring topics include Buddhist, Chinese, and Indian philosophy. Meets with 60.613. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall.

60.314 American Philosophy (3) The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.614. Usually offered alternate springs. *Prerequisite:* one course in philosophy.

60.315 Topics in Jewish Philosophy (3) Rotating topics on the chief intellectual and philosophical currents of Jewish thought. Topics may include the study of the major Jewish thinkers of the past, such as Philo, Maimonides, or Martin Buber; or the course may be organized thematically around such questions as the relationship of Jewish thought to Aristotelian philosophy or the resonance of the Holocaust in Jewish philosophy. May be repeated for credit but not in the same term; topic must be different. Meets with 60.615. Usually offered every fall.

60.341 Philosophy of the Social Sciences (3) The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.641. Usually offered every fall. *Prerequisite:* one course in philosophy or permission of instructor.

60.353 Metaphysics (3) Course focuses on one of the following topics: mind and soul, the concept of freedom, analysis and explanation of action, and metaphysics and metaphilosophy. Meets with 60.653. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* two courses in philosophy or permission of instructor.

60.355 Philosophy of Religion (3) Leading contemporary movements in the philosophy of religion. Meets with 60.655. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.386 Selected Topics in Philosophy (3) Rotating topics including: medical ethics, philosophy of language, advanced philosophical argumentation, philosophy of reason and passion, bio-ethics, and post-modernism. Usually meets with 60.686. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* 60.105 or permission of instructor.

60.390 Independent Reading Course in Philosophy (1-6)

60.391 Internship in Philosophy and Social Policy (1-6) Meets with 60.691. Usually offered every term.

60.392 Cooperative Education Field Experience in Philosophy and Social Policy (3-6) See description under Cooperative Education in this publication. Meets with 60.692.

60.490 Independent Study Project in Philosophy (1-6)

60.498 Honors Project in Philosophy (3-6) May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of department and University Honors Director.

Graduate and Advanced Undergraduate Courses

60.500 Modern Deductive Logic (3) Introduction to modern symbolic methods in deductive reasoning; the merits of competing systems and the philosophical issues involved. Special knowledge of mathematics is not required. Usually offered alternate springs. *Prerequisite:* 60.100 Introduction to Logic or permission of instructor. *Note:* Not open to students who have taken 60.350/650 Modern Deductive Logic.

60.520 Seminar on Ethical Theory (3) Survey of the development of ethical theory in Western philosophy by analysis of major works in classical and contemporary moral philosophy. Among the issues investigated are the nature of the good and the right, the possibility of moral knowledge, the principles of individual virtue and social justice, the problems of ethical relativism and absolutism, and the foundations of modern conceptions of human rights. Usually offered every fall. *Prerequisite:* one introductory course in philosophy. *Note:* Not open to those who have received credit for 60.386/620 Seminar on Ethical Theory.

60.525 Seminar on Modern Moral Problems (3) Investigation of moral philosophers' attempts to analyze specific moral problems (e.g., abortion, euthanasia, pornography, surrogate parenting, capital punishment, economic justice, affirmative action, research with human subjects, genetic research, government secrecy and deception) and to formulate general principles for ethical analysis of social policies and professional ethics (for lawyers, doctors, etc.). Usually offered every spring. *Prerequisite:* one introductory course in philosophy. *Note:* Not open to students who have taken 60.386/625 Seminar on Modern Moral Problems.

60.545 Seminar on Theories of Human Nature (3) Theories of the nature of human beings and the human condition. This course considers contemporary as well as historical answers to questions such as, Are we free or determined? rational or irrational? inherently good or evil? selfish or altruistic? spiritual or materialistic? social or individualistic? Usually offered every spring. *Prerequisite:* one introductory course in philosophy. *Note:* Not open to students who have taken 60.645 Seminar on Theories of Human Nature.

60.590 Independent Reading Course in Philosophy (1-6)

Graduate Courses

Note: Courses at the 600 level generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

60.600 Ancient and Medieval Philosophy (3) History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.300. Usually offered alternate falls.

60.601 Modern Philosophy from Bacon to Hegel (3) Modern Western philosophic ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth century Europe. No previous course in philosophy required, but stu-

dents will find it helpful to have taken 60.600. Meets with 60.301. Usually offered alternate springs.

60.602 Nineteenth Century Philosophy (3) This is the first of two courses that explore the fundamental themes of contemporary Western philosophy and their relation to historical developments, such as the Industrial Revolution, and to scientific developments, such as the Darwinian revolution. Among the topics covered are utilitarianism, pragmatism, Marxism, existentialism, and the philosophy of science. Meets with 60.302. Usually offered every fall. *Prerequisite:* one introductory course in philosophy.

60.603 Twentieth Century Philosophy (3) This is the sequel to 60.602. The course explores the fundamental themes of contemporary Western philosophy in view of historical developments, such as the world wars, and of intellectual developments, such as Einstein's and Freud's discoveries. Topics covered include pragmatism, Marxism, existentialism, phenomenology, deconstructionism, philosophy of science, and analytic philosophy. Meets with 60.303. Usually offered every spring. *Prerequisite:* one introductory course in philosophy.

60.610 The Classical Period (3) Regularly recurring topics include: the pre-Socratics, Plato, Aristotle, Neo-Platonism, and Augustine. Meets with 60.310. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* 60.600 or permission of instructor.

60.611 Modern European Movements (3) Regularly recurring topics include: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian idealism. Meets with 60.311. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* one introductory course in philosophy.

60.612 Recent and Contemporary Philosophers (3) Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.312. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.613 Studies in Oriental Philosophy (3) Regularly recurring topics include Buddhist, Chinese, and Indian philosophy. Meets with 60.313. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall.

60.614 American Philosophy (3) The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.314. Usually offered alternate springs. *Prerequisite:* one course in philosophy.

60.615 Topics in Jewish Philosophy (3) Rotating topics on the chief intellectual and philosophical currents of Jewish thought. Topics may include the study of the major Jewish thinkers of the past, such as Philo, Maimonides, or Martin Buber, or the course may be organized thematically around such questions as the relationship of Jewish thought to Aristotelian philosophy or the resonance of the Holocaust in Jewish philosophy. May be repeated for credit but not in the same term; topic must be different. Meets with 60.315. Usually offered every fall.

60.641 Philosophy of the Social Sciences (3) The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.341. Usually offered every fall. *Prerequisite:* one course in philosophy or permission of instructor.

60.653 Metaphysics (3) Course focuses on one of the following topics: in the philosophy of soul, the concept of freedom, analysis and explanation of action, and metaphysics and metaphilosophy. Meets with 60.353. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* two courses in philosophy or permission of instructor.

60.655 Philosophy of Religion (3) Leading contemporary movements in the philosophy of religion. Meets with 60.355. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.686 Selected Topics in Philosophy (3) Rotating topics including: medical ethics, philosophy of language, advanced philosophical argumentation, philosophy of reason and passion, bio-ethics, and post-modernism. Usually meets with 60.386. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* 60.105 or permission of instructor.

60.690 Independent Study Project in Philosophy (1-6)

60.691 Internship in Philosophy and Social Policy (1-6) Meets with 60.391. Usually offered every term.

60.692 Cooperative Education Field Experience in Philosophy and Social Policy (3-6) See description under Cooperative Education in this publication. Meets with 60.392.

60.702 Graduate Seminar in Philosophy (3-12) Intensive study of selected problems under individual direction. Multiple registrations of three credit hours each for a maximum of twelve hours are permitted during a semester. Topics: history of philosophy, metaphysics, logic, epistemology, philosophy of science, value theory, philosophy of religion, social philosophy, and Eastern philosophy. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* four courses in philosophy and permission of department.

60.797 Master's Thesis Seminar (1-6) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

60.799 Doctoral Dissertation Seminar (1-24) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

Religion

Undergraduate Courses

61.105 The Religious Heritage of the West 2:1 (3) The contribution of religion to Western civilization. The eastern Mediterranean roots of Western religions, the emergence of Christianity in the Greco-Roman world, and the rise of Islam. The mature religious synthesis of Medieval Europe. Modern secularism's challenge to this tradition. Usually offered every term.

61.170 Introduction to the New Testament (3) Literary, historical, and theological study of the New Testament. Particular attention to

Jesus, Paul, and the development of the Christian movement. Usually offered alternate falls.

61.185 Forms of the Sacred: Religions of the East 3:1 (3) An introduction to the method of studying the history of religions. A brief survey of primal religions and Judaism and Christianity provides a basis for comparative analysis of the major Eastern religions: Hinduism, Buddhism, Chinese religion, Shinto, and Islam. Usually offered every term.

61.210 Asian and African Religious Traditions 3:2 (3) The religious traditions of South Asia, East Asia, and sub-Saharan Africa. How these religious traditions function as systems of symbols, how they interact with both indigenous religious traditions (in Asia) and external religious traditions (Islam and Christianity), and how they respond to modernization and imperialism. Usually offered every term. *Prerequisite for General Education credit:* 03.110 or 61.185.

61.220 Religious Thought 2:2 (3) The study of religion and religion's role in life. Beginning with modern approaches to the study of religion, this course examines religious ways of defining the human situation, the quest for salvation, wholeness, and transcendence, and the problem of speaking about the divine within the terms of modern culture. Usually offered every term. *Prerequisite for General Education credit:* 07.100 or 61.105.

61.370 Islam (3) Hundreds of millions of people adhere to Islam, sometimes described as the world's fastest growing religion. Students examine historical origins, Prophet Muhammad, Quran, and other formative elements underlying the modern Muslim situation. Meets with 61.670. Usually offered alternate falls.

61.371 Topics in Jewish Religion (3) Rotating topics on the chief religious themes of Judaism. Topics may include the study of major Jewish religious thinkers of the past, or courses may be organized thematically around such issues as the role of mysticism in Judaism. Meets with 61.671. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring.

61.373 Hinduism (3) This amazingly vital, age-old religion has more than once extended its influence as a religion of truly worldwide significance. Origins, early literature, and main expressions of Hinduism (including Yoga, Bhakti, and cult of the Divine Mother) are presented. Students develop topics of their own interest. Meets with 61.673. Usually offered alternate springs.

61.386 Topics in Religious Discussion (3) Examination of important problems, thinkers, and issues in classical and contemporary religious thought. Recent topics have included: Liberation Theology, Religion in the African Diaspora, Hispanic Spiritual Traditions, and Spirit Possession and Trance. Meets with 61.686. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

61.390 Independent Reading Course in Religion (1-6)

61.490 Independent Study Project in Religion (1-6)

61.498 Honors Project in Religion (3-6) *Prerequisite:* permission of department chair and university honors director.

Graduate and Advanced Undergraduate Courses

61.590 Independent Reading Course in Religion (1-6)

Graduate Courses

Note: Courses at the 600 level generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

61.670 Islam (3) Hundreds of millions of people adhere to Islam, sometimes described as the world's fastest growing religion. Students examine historical origins, Prophet Muhammad, Quran, and other formative elements underlying the modern Muslim situation. Meets with 61.370. Usually offered alternate falls.

61.671 Topics in Jewish Religion (3) Rotating topics on the chief religious themes of Judaism. Topics may include the study of major Jewish religious thinkers of the past, such as Rashi or other rabbinical scholars; or courses may be organized thematically around such issues as the role of mysticism in Judaism. Meets with 61.371. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring.

61.673 Hinduism (3) This amazingly vital, age-old religion has more than once extended its influence as a religion of truly worldwide significance. Origins, early literature, and main expressions of Hinduism (including Yoga, Bhakti, and cult of the Divine Mother) are presented. Students develop topics of their own interest. Meets with 61.373. Usually offered alternate springs.

61.686 Topics in Religious Discussion (3) Examination of important problems, thinkers, and issues in classical and contemporary religious thought. Recent topics have included: Liberation Theology, Religion in the African Diaspora, Hispanic Spiritual Traditions, and Spirit Possession and Trance. Meets with 61.386. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

61.690 Independent Study Project in Religion (1-6)

61.797 Master's Thesis Seminar (1-6) Usually offered every term. *Prerequisite:* permission of department chair.

Computer Science and Information Systems

Undergraduate Courses

64.100 Computers and Information (3) A first course for studying computers and information, provides a foundation for using computers in other courses and curricula for research, communication and writing. Offering hand-on experience to students in such topics as productivity enhancement, software, hardware, systems development, uses of the Internet and World Wide Web, and future directions and trends for computers and information. Usually offered every term. *Note:* Not open to students who have taken 40.260, 40.280 or 55.210.

64.200 Creativity and Computers 1:2 (3) This course explores how computers enhance the creative process in virtually every aspect of the arts. Examples include computer graphics, multimedia computing in literature and art, synthetic music, and virtual reality systems for simulating stage productions. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 23.105 or 23.135 or 67.110. *Note:* Not open to students who have taken 55.200.

64.210 Introduction to Computer Information Systems (3) This course is an introduction to the role of the computer in modern organizations, discussing hardware and software, computer application

development, data processing and database systems, and the impact of computer information systems on society. Usually offered every term. *Note:* Not open to students who have taken 55.210.

64.234 Programming Concepts I (3) Basic concepts of computer programming and graphical user interfaces. Development of the algorithmic models used in constructing modern applications. Usually offered every term. *Prerequisite:* 64.210, which may be taken concurrently. *Note:* Not open to students who have taken 55.234.

64.235 Programming Concepts II (3) Development of the algorithmic models used in constructing modern applications. Exposure to advanced graphical user interface and use of external modules. Usually offered every term. *Prerequisite:* 64.234. *Note:* Not open to students who have taken 55.235.

64.280 Introduction to Computer Science I (4) Problem solving and algorithm development. Structured programming, basic data types, and canonical structures; arrays and subprograms; recursion. Social implications of computing. Elementary applications from business and science. Usually offered every term. *Prerequisite:* 41.150 or equivalent. *Note:* Not open to students who have taken 40.280.

64.281 Introduction to Computer Science II (3) Continuation of problem solving. Emphasis on larger programs built from modules. Introduction to abstract data structures: stacks, queues, graphs and trees and their implementations and associated algorithms. Elementary numerical methods. Usually offered every term. *Prerequisite:* 64.280. *Note:* Not open to students who have taken 40.281.

64.282 Assembly-Language Programming (4) Basic concepts of computer architecture and organization. Assembly-language programming: instruction formats, addressing techniques, macros, and input/output. Program segmentation and linkage. The assembly process. Usually offered every term. *Prerequisite:* 64.281 or permission of the department. *Note:* Not open to students who have taken 40.282.

64.315 Human Factors in Computer Information Systems (3) Examination of human needs in developing, operating, and using information systems. Methods for analyzing the social, organizational, and human aspects of information systems. Usually offered every spring. *Prerequisite:* 64.210. *Note:* Not open to students who have taken 55.315.

64.325 Computer Hardware and Systems Software (3) This course covers the major hardware and software components of computer systems as well as issues related to their use by organizations, such as feasibility analysis and hardware and software selection. Usually offered every spring. *Prerequisite:* 64.210. *Note:* Not open to students who have taken 55.325.

64.330 Organization of Computer Systems (3) Logical circuit design, integrated circuits and digital functions, data representation, register transfer operations and microprogramming, basic computer organization, the central processor, and arithmetic operations. Usually offered every term. *Prerequisite:* 64.281 and 64.282. *Note:* Not open to students who have taken 40.330.

64.340 Data Structures and Algorithms (3) Basic techniques of design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, trees, and graphs. Memory management. Internal and external searching and sorting. Usually offered every term. *Prerequisite:* 64.281 and 64.282. *Note:* Not open to students who have taken 40.340.

64.341 Organization of Programming Languages (3) Survey of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as Prolog, Smalltalk, LISP, Ada, etc. Basic elements of compiling and interpreting. At least one non-procedural language is studied in detail. Usually offered every term. *Prerequisite:* 64.281 and 64.340. *Note:* Not open to students who have taken 64.341.

64.345 Software Engineering (3) Presents techniques and tools in software design and development and applies them to the design and implementation of a large software system. Topics include: the software life cycle—requirements, design, implementation, testing and debugging, maintenance and documentation; software reliability, portability, and expandability; and user interface. A team project consists of all different phases of the software life cycle. Usually offered every spring. *Prerequisite:* 64.340 or permission of instructor. *Note:* Not open to students who have taken 64.345.

64.350 Introduction to Discrete Structures (3) Introduction to mathematical topics required in computer science, such as graphs, sets and relations, logic, and recurrence. Usually offered every spring. *Prerequisite:* 64.281 and either 41.211 or 41.221. *Note:* Not open to students who have taken 64.350.

64.363 Microcomputer Applications in Computer Information Systems (3) This course surveys microcomputer hardware and software in information system applications. It examines the capabilities and limitations of microcomputers, discusses hardware and software acquisitions, and reviews software used in information systems. Usually offered every spring. *Prerequisite:* 64.210. *Note:* Not open to students who have taken 55.363.

64.365 Introduction to Operating Systems (3) A survey of the resource-management strategies used in contemporary operating systems. Topics include the management of primary storage, processors, processes, peripheral devices, files, and other common subsystems. Usually offered every spring. *Prerequisite:* 64.330, 64.340, and 42.202. *Note:* Not open to students who have taken 64.365.

64.390 Independent Reading Course (1-6)

64.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

64.432 Introduction to Simulation and Modeling (3) Design and implementation of simulation models for systems design and analysis. Emphasis on discrete stochastic systems and real-world business and government problems including resource allocation, queuing, inventory control, and industrial production. Overview of principal simulation languages and their applicability to problem solving. Usually offered every spring. *Prerequisite:* 64.210, 41.211 (or 41.221), 42.202, and competence in a high-level programming language. *Note:* Not open to students who have taken 55.432.

64.440 Database Management in Computer Information Systems (3) The design, development, and control of databases and applications software based on database. Topics include database models and software, logical and physical database design, applications development, and database administration. Usually offered every fall. *Prerequisite:* 64.235. *Note:* Not open to students who have taken 55.440.

64.455 Introduction to Systems Analysis (3) Traditional analysis, design through the data flow analysis, and system development life cycle approach. Methods for structured analysis and design are cov-

ered. Also treated are data structures, definitions, and normalization. Emphasis is on gaining an ability to use the various tools associated with systems analysis. Usually offered every fall. *Prerequisite:* 64.234. *Note:* Not open to students who have taken 55.455.

64.460 Applied Systems Design (3) This course builds on previous courses and allows students to apply the tools studied in 64.455. The class follows the life cycle process to produce specifications for a current system, develop the physical design for the system, and to the extent possible, implement the system. The use of project teamwork is emphasized. Usually offered every term. *Prerequisite:* 64.455. *Note:* Not open to students who have taken 55.460.

64.465 Designing and Writing Computer Documentation (3) Documentation is required at each stage in the system development life cycle from analysis to maintenance and use. This course discusses the appropriate documentation for each stage, provides guidelines for evaluation, and offers practical work into writing of user documentation, including on-line documentation. Usually offered every fall. *Prerequisite:* 64.234. *Note:* Not open to students who have taken 55.465.

64.480 Senior Seminar in Computer Information Systems (3) This capstone course encourages the student to explore the interrelationships between the theory and substance of computer information systems as a field of study. Students and faculty present concepts for critical review. A major project is usually required. Usually offered every term. *Prerequisite:* 64.315, 64.440, 64.460 (may be taken concurrently) and senior standing. *Note:* Not open to students who have taken 55.480.

64.485 Senior Workshop in Computer Information Systems (3) This is a capstone course in information system development. Students will demonstrate their mastery of the tools and techniques of information system development by participating in the development of a real world information system. Usually offered every term. *Prerequisite:* 64.315, 64.460 and 64.465 and senior standing. *Note:* Not open to students who have taken 55.485.

64.490 Independent Study Project (1-6)

64.491 Internship (1-6)

Graduate and Advanced Undergraduate Courses

64.510 Legal Issues in Computing (3) Copyright, patent, contract, tort, antitrust, privacy, and telecommunications issues. Usually offered every fall. *Prerequisite:* some knowledge of computers. *Note:* Not open to students who have taken 40.510.

64.511 Concepts in Systems and Information (3) The major concepts and techniques that comprise the systems perspective; applications of systems concepts and related techniques in organizations. Provides an introduction to the major functional areas within information systems, including information systems planning, the systems development life cycle, and structured techniques and tools. Usually offered every term. *Note:* Not open to students who have taken 55.511.

64.512 Computer Applications in Health Fitness (2) Introduction to computing resources and design principles for health fitness professionals. Provides an introduction to the major functional areas within information systems as they apply to health fitness professionals: hardware and software, Internet resources, system design principles, data processing, and statistical tools. No credit given toward Computer Science or Information Systems degree programs. *Note:* Not open to students who have taken 55.512.

64.515 Human Factors in Information Systems (3) The human aspects of information systems and their development. The effects of human factors in the design and development phases of the systems development life cycle. Usually offered every term. *Prerequisite:* 64.511, which may be taken concurrently. *Note:* Not open to students who have taken 55.515.

64.520 Algorithms and Data Structures (3) Design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, trees, and graphs. Memory management. Internal and external searching and sorting. Usually offered every term. *Prerequisite:* graduate standing and 64.281 or equivalent, or permission of instructor. *Note:* Not open to students who have taken 40.520.

64.521 Design and Organization of Programming Languages (3) Study of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as Prolog, Smalltalk, LISP, Ada, etc. At least one non-procedural language is studied in detail. Elements of compiling and interpreting. Usually offered every term. *Prerequisite:* graduate standing or permission of instructor; 64.520 is recommended. *Note:* Not open to students who have taken 40.521.

64.533 Concepts in Computer Communication (3) Computer communications and networking. Basic concepts of communication protocols are examined, from simple protocols to support terminal interfaces through various levels of protocol found in modern networks. Usually offered every spring. *Prerequisite:* 64.210 or permission of instructor. *Note:* Not open to students who have taken 55.533.

64.535 Hypermedia Computing (3) Hypermedia is the integration of text, graphics, animation, sound, and video into a single computer application. This course gives students a broad understanding of the technical aspects of hypermedia application development as well as the conceptual issues that affect this technology. Each student develops an individual hypermedia project based on Hypercard on the Macintosh computer. Usually offered every term. *Note:* Not open to students who have taken 55.535.

64.540 Computer System Organization and Programming (3) Investigation of the structure of a modern computing system. Alternative computer organizations are discussed so that students may appreciate the range of possible design choices. Assembly, linking, and loading are presented in detail. The relation between system software and computer organization is discussed. Usually offered every fall. *Prerequisite:* graduate standing or permission of instructor. *Note:* Not open to students who have taken 40.540.

64.543 Object-Oriented Analysis and Design (3) A study of object-oriented concepts and their use in systems development. This course analyzes abstractions called objects and develops analysis-level models of systems using objects. The properties of these object models are discussed and methods for systematic development of the models are studied. The translations of the analysis-level models into system design is performed to understand how systems can be realized in software implementations. Usually offered every fall. *Prerequisite:* 64.234 or 64.281, 64.440, or permission of instructor.

64.546 Introduction to Computer Networks (3) An introduction to the basic concepts of computer networks. The architecture of data communication systems, the seven-layer model of a network, and the

physical, data link, network, transport, and session layers are explored. Protocol algorithms are considered for the implementation of the various network layers. Usually offered alternate springs. *Prerequisite:* 64.330 and 64.340 (or 64.520 and 64.540) and 42.202. *Note:* Not open to students who have taken 40.546.

64.550 History of Computing (3) Examines the evolution of computers and information systems, starting with the abacus. The evolution of computing machinery, software, programming languages, and the principal personages in the history of computing. Class discussions inform students about important antecedents to today's computer hardware, software, and systems. Usually offered every spring. *Note:* Not open to students who have taken 55.550.

64.555 Systems Engineering Process (3) Presents the procedures, methods, techniques, tools, metrics, and documentation practices that are the foundation of effective system engineering practice. Relates these elements to past projects that illustrate their use and misuse. Lecture materials are supplemented by a series of practical exercises demonstrating proper use of the principal methods and tools of the systems engineering discipline. Offered irregularly. *Prerequisite:* 64.511 or equivalent experience. *Note:* Not open to students who have taken 55.555.

64.560 Systems Analysis and Design (3) The methods and processes of systems analysis. Emphasis is placed on analytic tasks relating to systems development, and the organizational and technological context within which these analytical tasks are addressed. Usually offered every term. *Prerequisite:* 64.511 and 64.515, which may be taken concurrently. *Note:* Not open to students who have taken 55.560.

64.565 Operating Systems (3) Historical background. Operating system functions and concepts: processes; processor allocation; memory management; virtual memory; I/O and files; protection; and design and implementation. Several existing operating systems are discussed. A group project to design and implement a small operating system is usually required. Usually offered every spring. *Prerequisite:* graduate standing, 64.520 and 64.540 (or 64.330 and 64.340), or permission of instructor. *Note:* Not open to students who have taken 40.565.

64.566 Introduction to Compilers (3) Design and implementation of compilers. Topics include lexical analysis, syntactic analysis, code generation and optimization, and error recovery. A term project to design and implement a compiler for a small programming language is usually required. Usually offered every spring. *Prerequisite:* 64.330 and 64.341 (or 64.521 and 64.540). *Note:* Not open to students who have taken 40.566.

64.568 Artificial Intelligence (3) Application of computers to tasks usually thought to require human intelligence, such as game playing, problem solving, learning, pattern recognition, natural language understanding, and expert systems. Usually offered every spring. *Prerequisite:* 64.340 and 64.341 (or 64.520 and 64.521). *Note:* Not open to students who have taken 40.568.

64.580 Introduction to Neural Networks (3) Presents different types of neural networks and describes the basic mechanisms that underlie each network. Discusses fundamental network properties necessary to achieve autonomous behavior. Analyses how well each network satisfies these properties. Usually offered every fall. *Note:* Not open to students who have taken 40.580.

64.584 Computer Graphics (3) Overview of display technology: cathode ray tubes (CRTs), digital control of CRTs, other displays, applications, interactive devices, hard copy, and graphics system design. Graphics software: high-level languages for graphics, programming interactive devices, display files, design of graphics systems, transformations in two and three dimensions, gray scales, color, cropping, and hidden lines. Usually offered every spring and summer. *Prerequisite:* 64.330 and 64.340 (or 64.520 and 64.540), 41.310 is recommended. *Note:* Not open to students who have taken 64.584.

64.585 Artificial Intelligence Programming (3) Students specify, design, build, and document commonly used artificial intelligence tools and systems. The focus is bridging the gap between the theory and practice of artificial intelligence. Students build systems using the implementation language Common Lisp, and part of this course covers improvement of Common Lisp programming skills. Offered irregularly. *Prerequisite:* 64.568; 41.525 is recommended. *Note:* Not open to students who have taken 40.585.

64.590 Independent Reading Course (1-6)

Graduate Courses

64.606 Quantitative Analysis for Information Systems (3) Quantitative tools applied to the solution of problems in applying, managing, and evaluating information technologies, including statistical, operations-research, and modeling techniques. Usually offered every term. *Note:* Not open to students who have taken 55.606.

64.620 Design and Analysis of Algorithms (3) Study of algorithms by category, such as divide-and-conquer, dynamic programming, state space search, computational complexity, and NP-complete problems. Analysis of practical techniques. Usually offered every spring. *Prerequisite:* 64.520. *Note:* Not open to students who have taken 40.620.

64.630 Expert Systems (3) The course presents techniques and tools for expert-systems design and development. Topics include expert system components, methods for building expert systems, knowledge acquisition, knowledge representation, knowledge processing, and handling uncertainty. Expert system shells (such as Exsys Professional and Level 5) are used for developing working expert systems for different applications. Usually offered every fall and alternate summers. *Prerequisite:* 64.568 or permission of instructor. *Note:* Not open to students who have taken 40.630.

64.632 Simulation and Modeling (3) Design and implementation of simulation models for systems design and analysis. Emphasis on discrete stochastic systems and real-world business and government problems including resource allocation, queuing, inventory control, and industrial production. Overview of principal simulation languages and their applicability to problem solving. Usually offered every spring. *Note:* Not open to students who have taken 55.632.

64.634 Selected Domains of Artificial Intelligence (3) A study of selected domains of human endeavor for application of artificial intelligence techniques such as manufacturing control, traffic, scheduling, medical diagnostic systems, and robot assembly. The subject domains studied vary from semester to semester, but provide an in-depth knowledge of a field of current interest. Offered irregularly. *Prerequisite:* 64.568, 64.580, or 64.630. *Note:* Not open to students who have taken 40.634.

64.635 Computer Systems Applications: Database Management (3) Examination of data base management systems, distributed systems,

evaluation and selection of computer systems, privacy and security, and performance evaluation. Usually offered every term. *Prerequisite:* 64.511 or 64.520. *Note:* Not open to students who have taken 55.635.

64.636 Advanced Database Management Systems (3) Advanced query capabilities and procedural constructs are described using SQL and PL/SQL. The theoretical foundation for using these capabilities is presented. Performance issues are discussed including indexing, key definitions, and data constraints. The role of application development in ease of use, query optimization, and system performance is discussed. Usually offered every fall. *Prerequisite:* 64.635.

64.637 Database Administration (3) Database administration topics including space allocation, recovery, security, configuration management, and performance tuning are discussed. Administration capabilities are presented using a real environment. Recovery issues include commit and rollback capabilities, check points, and data logs. Physical design and implementation constraints are addressed. Usually offered every spring. *Prerequisite:* 64.635.

64.640 Economics of Information Systems (3) Covers the principles of evaluating the worth of an information system to an organization. Topics include: the cost of building information systems and supporting computing systems, analysis of existing information systems, and metrics for measuring information value. Usually offered every fall. *Prerequisite:* 64.511. *Note:* Not open to students who have taken 55.640.

64.642 Client Server Computing (3) An introduction to client/server computing and distributed processing, including a presentation of data management in client/server environments. The implementation of client/server environments is discussed. Emphasis on practical, case-based approaches. Usually offered once a year. *Prerequisite:* 64.635, 64.533 or 64.546, or permission of instructor.

64.645 Software Engineering (3) Presents techniques and tools in software design and development and applies them to the design and implementation of a large software system. Topics include: the software life cycle—requirements, design, implementation, testing and debugging, maintenance and documentation; software reliability, portability, and expandability; and user interface. A team project consists of all different phases of the software life cycle. Usually offered every spring. *Note:* Not open to students who have taken 40.645.

64.646 Computer Network Design and Analysis (3) Design and analysis problems relating to computer communications networks. Capacity assignment techniques are applied to different network topologies. Queuing theory is used to allocate limited network resources. Network design algorithms, routing, and flow control techniques are investigated. Usually offered every spring. *Prerequisite:* 64.546 and 41.501, or permission of instructor. *Note:* Not open to students who have taken 40.646.

64.647 Project Management and Project Leadership (3) An introduction to the technology of project planning and management with emphasis on large-scale projects and programs. View of sources of information concerning funding organizations' practices and procedures as they relate to project execution; planning and scheduling techniques including PERT, CPM, Gantt, and technical performance measurement techniques; and special management problems associated with scientific and technical projects. Offered irregularly. *Prerequisite:* 64.511 or equivalent. *Note:* Not open to students who have taken 55.647.

64.650 Advanced Project Management with Software Emphasis (3) Presents the principles and practices of effective management of software intensive projects. Defines the processes involved and their implementation in various organizational contexts. Lectures are supplemented with exercises that illustrate key points regarding the project cycle, the work breakdown structure, team activities, and project scheduling techniques. Offered irregularly. *Prerequisite:* 64.511. *Note:* Not open to students who have taken 40.650.

64.661 Telecommunications and Management Information Systems (3) The relationships of data communications and management information systems. The current state of the art and probable future developments in data communications systems. Usually offered every term. *Prerequisite:* 64.511. *Note:* Not open to students who have taken 55.661.

64.662 Information Systems Management (3) The management issues and problems of planning, developing, installing, operating, and maintaining information systems in organizations. Special focus is placed on the connection of managerial and technical resources in organizations. Attention is paid to political, economic, and organizational factors. Usually offered every spring. *Prerequisite:* 64.560. *Note:* Not open to students who have taken 55.662.

64.663 Intelligent Information Systems (3) Information systems increasingly use intelligent systems technologies to improve performance and enhance decision making. This survey of current intelligent systems includes expert systems, neural networks, fuzzy systems, genetic algorithms, and case-based reasoning. The integration of these techniques is also covered. Projects using development shells deepen understanding and provide practical experience. Usually offered every spring. *Prerequisite:* 64.511 and 64.515. *Note:* Not open to students who have taken 55.663.

64.665 Analysis and Design Workshop (3) An advanced information systems course. Students use structured techniques to analyze and design an information system for a real-world organization. Usually offered every fall and spring. *Prerequisite:* 64.560 or permission of instructor. *Note:* Not open to students who have taken 55.665.

64.667 Information Engineering (3) Introduces students to the concepts and tools for developing information systems using an information engineering methodology. Lecture material is illustrated with a semester long project using CASE (Computer Aided Software Engineering) tools. Information engineering is contrasted with the traditional system development lifecycle and structured analysis and design. Usually offered every fall. *Prerequisite:* 64.511 and 64.560. *Note:* Not open to students who have taken 55.667.

64.668 Data Resources Management (3) Introduces students to the concepts and techniques of Data Resource Management (DRM), the discipline of managing corporate data as a resource. Topics include: strategic systems planning, business process modeling, data modeling, and data standardization and administration. Identifies and discusses the concerns of DRM. Usually offered every spring. *Prerequisite:* 64.511 and an understanding of databases. *Note:* Not open to students who have taken 55.668.

64.670 Information Resources Management (3) Examination of Information Resources Management (IRM), as an emerging field that recognizes information as a valuable resource and as such must be managed like all other resources in an organization. Addresses issues related to information resources planning, acquisition, oversight, and

management, and technological issues that influence delivery of information such as hardware, software, and telecommunications. Class discussions, critical reviews of literature in the field, and assignments will introduce the concepts and processes of IRM. Usually offered every spring. *Prerequisite:* 64.511. *Note:* Not open to students who have taken 55.670.

64.680 Advanced Artificial Intelligence (3) Students investigate and study the most recent advances in Artificial Intelligence, concentrating on reports in research literature. Topics range over the main subfields of artificial intelligence such as: reasoning and problem solving; knowledge representation and discovery; distributed artificial intelligence, and intelligent information systems. *Prerequisite:* 64.568. *Note:* Not open to students who have taken 40.680.

64.690 Independent Study Project (1-6)

64.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

64.694 Capstone Project (3) With guidance from their adviser and the project class coordinator, students select an application area in computer science where an open-ended problem can be identified. Students research the literature and current domain solutions in the application area. Projects are documented and defended. *Prerequisite:* Completion of minimum of 24 credits hours of graduate study in computer science. *Note:* Not open to students who have taken 40.694.

64.760 Information Systems Seminar (3) Research seminar requiring a major research paper relevant to the present issues and challenges of the discipline. Students examine current and emerging technological, organizational, economic, and political issues. Critical reading in the literature of the field is required. Usually offered every fall and spring. *Prerequisite:* 64.662. *Note:* Not open to students who have taken 55.760.

64.797 Master's Thesis Seminar (1-6)

Sociology

Undergraduate Courses

65.100 American Society 4:1 (3) American pluralism and the variety of social arrangements and relationships found in American society. The emphasis is on how society is stratified; how organizations and institutions influence the way Americans think, talk, feel, and act; and how different groups (racial and ethnic) and divisions (gender and class) within society have differential access to power and privilege. Usually offered every term. *Note:* either 65.100 or 65.150 is a prerequisite for all .300-.400 level sociology courses.

65.110 Views from the Third World 3:1 (3) Introduction to the sociology of the Third World through study of the works of its own intellectuals and political leaders. Reflections on Third World societal structures and explanations of dilemmas of development and of strategies for overcoming these dilemmas. The course links texts to their Third World context. Usually offered every term.

65.150 Global Sociology 4:1 (3) An introduction to sociology that focuses on the process of global social change as a critical factor in understanding contemporary societies. It emphasizes macrosociology (the study of large organizations and whole societies) and the creation of today's global society, including similarities and differences within it. Two major themes—modernization and globalization—are emphasized and their implications for individuals, groups, communities, societies, and governments are explored. Usually of-

ferred every term. *Note:* either 65.100 or 65.150 is a prerequisite for all 300–400 level sociology courses.

65.205 The Family 4:2 (3) The family as a social institution in a changing society. Social inequalities of class, race, ethnicity, and gender as key factors in shaping diverse forms and experiences in family life. Theoretical and actual alternatives to family patterns as well as the future of the American family. Usually offered every term. *Prerequisite for General Education credit:* 03.150 or 57.105 or 76.125.

65.210 Inequality: Class, Race, Ethnicity 4:2 (3) Structured inequality in society in socioeconomic, racial, and gender terms. How the individual's life and experiences are circumscribed and structured by his or her position in the social stratification system. How and why stratification systems emerge and are reproduced and their alternatives. Usually offered every term. *Prerequisite for General Education credit:* 19.100 or 65.100 or 53.110 or 76.125.

65.215 The Rise of Critical Social Thought 2:2 (3) Issues about social science as a critical vision of society; imagined social possibilities and their comparison to existing social institutions. Secondary themes are individual development, community, large societal institutions, the effects of industrialism and capitalism, and the limits of social science knowledge as a guide to social planning and social action. Usually offered every term. *Prerequisite for General Education credit:* 29.100 or 60.105 or 73.110 or 76.150.

65.220 Work and Leisure in America 4:2 (3) A cultural, socio-political, and economic analysis of how people in the U.S. and other parts of the world work and play. Examines the development of American forms of work and leisure organizations and the impact of gender, race, and class on work and leisure. The sociological concepts of alienation, stress, and role conflict are used to explore the effect of work and non-work (such as retirement and unemployment) on the individual and society. Usually offered every fall. *Prerequisite for General Education credit:* 19.100 or 54.105 or 65.100 or 65.150.

65.225 Contemporary Arab World 3:2 (3) The social, economic, and political structure of the Arab World with special emphasis on the impact on this region of the rise and fall of oil revenues. A macrosociological approach places the region in the global political economy and introduces students to its problematics and historical-cultural specificity. Usually offered every term. *Prerequisite for General Education credit:* 33.105 or 61.185 or 65.110.

65.230 Conflict and Change in Latin America 3:2 (3) An introduction to Latin America through the lens of sociology. Latin American forms of economic and political organization and the societal conflicts over them. Alternative Latin American models for development and change; who has advocated each model and why. Usually offered every term. *Prerequisite for General Education credit:* 65.110 or 19.110 or 53.130.

65.235 Women in the Third World 3:2 (3) Focusing on Third World women and social change in different cultural contexts and in the global political-economic system, this course emphasizes the centrality of women in the rapidly changing world, particularly in terms of work, distributive justice, development policy, democratization, and the environment. Usually offered every spring. *Prerequisite for General Education credit:* 19.110 or 23.150 or 65.110.

65.280 Sociological Examination of Italy since World War II (3) Examination of significant facets of Italian society in the period since

World War II with a comparison of Italian and American experience. Offered only in Rome. Usually offered every term.

65.285 Education for International Development 3:2 (3) The conserving role of education as a socializing agent and the liberating role of education as an engine of change. Special attention is given to the social and economic impact of education in national development, especially in the Third World. Usually offered every spring. *Prerequisite for General Education credit:* 03.110 or 19.110 or 33.110 or 65.110. *Note:* not open to students who have taken 21.205 Education for International Development.

65.315 Major Social Theorists (3) Examines the contributions of major thinkers in social theory. Focus on both "classical" thinkers, such as Marx, Durkheim, and Weber, and more contemporary theorists, such as George Herbert Mead, Talcott Parsons, and Simone de Beauvoir. Traces formative influences on existing schools of social theory. Usually offered every fall. *Prerequisite:* 65.100 or 65.150.

65.320 Introduction to Social Research (3) An introduction to the major research methods in social science, their links to theory and practice, and their use in research projects. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

65.350 Social Problems in a Changing World (3) Sociological perspectives on the construction of social problems in a changing world. Focus on analysis of contrasting views and solutions for such conditions as global inequality, environmental degradation, population growth, inequalities based on economic class, race, gender, sexual orientation, and age, and institutional crises involving families, education, health care, crime, and justice. Usually offered every fall. *Prerequisite:* 65.100 or 65.150.

65.351 Race and Ethnic Conflict: Global Perspectives (3) A focus on what happens when divergent types of persons experience social contact. Racial, ethnic, tribal, national, and religious interactions throughout the world. The processes include conflict, amalgamation, acculturation, assimilation, prejudice, and discrimination. Usually offered every fall. *Prerequisite:* 65.100 or 65.150.

65.352 Women, Men, and Social Change (3) Focuses on gender as a basic organizational principle of social life in order to study the social construction of gender and how gender relationships are transformed in the process of social change. The course examines how race, class, and gender interact with culture in shaping the lives, social positions and relationships of diverse kinds of women and men in a changing world. Usually offered every spring. *Prerequisite:* 65.100 or 65.150.

65.360 Individual Identity and Social Change (3) Examines how diverse individual identities are forged within the controlling social relations of gender, race-ethnicity, and social class; the tension between the individual and structured inequality; self-representation of identity in everyday practices and in social movements to resist social control. Usually offered alternate springs. *Prerequisite:* 65.100 or 65.150.

65.365 Economic Development and Social Change (3) A course on societal development that explores what it means for a society to "develop." How do we measure a society's development and what is known about the material, economic, political, social and cultural conditions necessary for development? What worked and what did not work in past development strategies and which strategy is most likely to succeed in the 1990's global socio-economic system? Meets with 65.665. Usually offered every spring. *Prerequisite:* 65.100 or 65.150.

65.367 The Post-Industrial Metropolis (3) The transition to a post-industrial society has led to a dramatic socio-political restructuring of major cities into complex systems of urban-suburban metropolises. Regional, national, and international forces are responsible for the contemporary growth and economic prosperity of suburban "edge" cities and the concentration of poverty and racial-ethnic/national minorities in the central city. This course explores the emerging international hierarchy of "global cities" with the socio-spatial patterns of inequality and political conflict. Usually offered every spring. *Prerequisite:* 65.100 or 65.150.

65.370 Power, Politics and Society (3) Political sociology in a comparative global perspective including the role and functions of the state; relative state autonomy; state legitimacy; forms of democracy and democratization processes; state and civil society; political ideology and culture; and ethnicity, nationalism, and the state. Usually offered alternate springs. *Prerequisite:* 65.100 or 65.150.

65.371 Religious Conflict and Social Change (3) Analysis of the role of religion, religious revivalism and religious fundamentalism in social change in the modern world. Comparative religious revivalism and fundamentalism as new, anti-systematic socio-political movements for change in major religions across the globe. Focus on social bases, structures, ideology and dynamics of religious movements and religious conflict. Usually offered alternate falls. *Prerequisite:* 65.100 or 65.150.

65.372 Law, Rights, and Society (3) The comparative sociology of legal systems including state laws, social norms, and social control. Examines inequality in the provision of civil rights and legal statutes with regard to gender, ethnicity, and class. Also covers state legitimacy and the rule of the law; civil law, civil society, and economic development; and law, order, and movements for social change. Usually offered every spring. *Prerequisite:* 65.100 or 65.150.

65.374 Social Welfare Institutions in Comparative Perspective (3) An examination of the development and current state of institutions that grant material security in the face of risks such as unemployment, hunger, old age or illness. The course considers social welfare programs in all parts of the world with attention to the social, political, and economic factors that enhance people's life chances and security. Usually offered alternate springs. *Prerequisite:* 65.100 or 65.150.

65.382 Pacific Rim Development in Comparative Perspective (3) Why are Pacific Rim nations, such as Japan and Korea, growing so rapidly and so equitably? How have culture, labor repression, geopolitics, and the state influenced development? This course examines East Asian exceptionalism in light of contemporary development theory and through comparisons with the modernization experience of other world regions. Usually offered alternate falls. *Prerequisite:* 65.100 or 65.150.

65.389 Society and the Global Environment (3) Exploration into the relationship between social groups and the physical environment. Focus on the actions and reactions of public and policy groups in identifying and coping with natural and technological problems. Analysis of specific socio-environmental problems and the roles and methods of social scientists and others in social-impact assessment and social change. Usually offered every spring.

65.390 Independent Reading Course in Sociology (1-6)

65.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication. *Prerequisite:*

65.100 or 65.150, placement by Cooperation Education Program, and permission of department chair and instructor.

65.415 Current Issues in Social Theory (3) Focus on contemporary social theories including postmodernism, feminism, neo-functionalism, rational choice, world-systems, and neo-Marxism. Traces relation—continuity and rupture—of current issues to classical traditions and important thinkers in social theory. Emphasis on issues of theory construction, evaluation, and critique. Usually offered every spring. *Prerequisite:* 65.100 or 65.150.

65.422 Survey Research Methods (3) An overview of survey research advantages and limitations. Practical experience in all phases: design, sampling, questionnaire construction, interviewing, field-work organization, data-file creation, computerized data analysis, and report writing. Offered irregularly. *Prerequisite:* 65.320 or permission of instructor.

65.423 Social Policy Research (3) An overview of major issues in social-policy program evaluation. Types of evaluations and basic research methods appropriate to each. Practical experience in designing and carrying out both qualitative and quantitative evaluations of social programs. Usually offered alternate springs. *Prerequisite:* 65.320 or permission of instructor.

65.425 Social Advocacy and Social Change (3) Examines social change methods and mobilizing successful movements for social change: defining issues, forming constituencies, recruitment, choosing goals and strategies, criteria for choosing tactics, fundraising and resource mobilization, grassroots leadership development, handling the media, legislative coalitions and judicial remedies. Usually offered alternate springs. *Prerequisite:* 65.100 or 65.150.

65.490 Independent Study Project in Sociology (1-6)

65.491 Internship (3-6) Internship in social service, social change, and social research agencies. Internships in social research agencies require completion of 65.320. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* 65.100 or 65.150 and permission of department chair and instructor.

65.492 Major Seminar in Sociology (3) Integrates social theory and research as well as social policy and advocacy through the examination of social issues of global significance. Topics vary, with focus on questions such as who is defining the issue, what do sociologists say about the issue, and how central is sociological knowledge to understanding the issue? Usually offered every spring. *Prerequisite:* 65.100 or 65.150.

65.498, 65.499 Honors: Senior Year (1-6)

Graduate and Advanced Undergraduate Courses

65.515 Models of Societal Development (3) Analysis of the structure and dynamics of whole societies in the modern global system. Paradigms of societal development: classical Marxism, modernization, dependency, articulation of modes of production, world-system theory, neo-Marxism, neomodernization, etc. Consideration of growth with equity, structural adjustment, privatization and sustainable growth policies on societal structure and change. Usually offered every spring. *Prerequisite:* graduate standing or three courses in sociology. *Note:* not open to students who have taken 65.530 Macrosociology.

65.531 Regional Studies in Social Change (3) Topical courses examining social change in different parts of the world as a cause and consequence of economic development. Emphasis on the social effects of governmental or corporate policies. Examples include Latin America and the Middle East. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* graduate standing or three courses in sociology.

65.540 Social Psychology: Sociological Perspectives (3) The relationships between person and group: concepts, theories, and methods. Interaction of social-structure variables and personality development, adult socialization and aging, collective behavior, and intergroup relations. Offered irregularly. *Prerequisite:* graduate standing or three courses in sociology.

65.545 Global and Multicultural Education (3) This course deals with the role of American education in an interdependent world, examining both the multicultural character of American classrooms and the international dimensions of the American school curriculum. It explores such issues as ethnocentrism, empathy, and global awareness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Usually offered every spring. *Note:* not open to students who have taken 21.625 Global Education.

65.549 Nonformal Education and Development (3) An examination of the role of nonformal education in the economic, social, and political development of developing nations. Specifically, the course deals with out-of-school programs in adult education, literacy, health, family planning, agriculture, nutrition, and community development. Case materials from several countries are used to study the issues and techniques involved in human resource development. Usually offered every spring. *Note:* not open to students who have taken 21.679/65.679 Nonformal Education and Development.

65.550 Stratification: Socio-Economic Inequality (3) A broad view of the varied sociological approaches to socio-economic stratification considered in terms of domestic, comparative-historical and international dimensions. Explores the functionalist, conflict and elite theories, methodologies of stratification, and the issues of social mobility, poverty and the welfare state. Investigates class formation and the social consequences of stratification on the individual, group and society. Usually offered every spring. *Prerequisite:* graduate standing or permission of instructor.

65.553 Multiculturalism (3) Offers a comprehensive view of the social experiences of diverse cultural groups in societies such as the United States. Highlights the intersections of culture with race, gender, and class. Reviews both the critique and the appreciation of cultural diversity in the light of social research. Usually offered alternate springs. *Prerequisite:* graduate standing or three courses in sociology.

65.560 Labor Sociology: Critical Perspectives on Work and Workers (3) Provides students with a broad overview of the varied sociological approaches to the field. Examines changing job structures, compensation patterns, labor market reorganization, rise of temporary workers, trends in organized labor, immigration impacts, and labor-management relations. Themes include post-Fordist labor relations, politics of flexible accumulation, consequences of industrial restructuring, trends in the post-industrial economy, and NAFTA. Usually offered alternate falls.

65.570 Sociology of Gender and Family (3) The study of gender and family as basic principles of the social order and primary social categories. Introduces students to the theories, data sources and applications of family structures and gender relationships in the United States and cross-culturally. Usually offered every fall. *Prerequisite:* graduate standing or three courses in sociology.

65.580 Social Policy Analysis (3) Examines the variety of conceptual frames that social scientists use in analyzing social policies and provides a basis for their selection. A second part deals with the detailed analysis of case studies and introduces practitioners who contributed to them. Usually offered every fall. *Prerequisite:* graduate standing or three courses in sociology.

65.590 Independent Reading Course in Sociology (1-6)

Graduate Courses

65.610 History of Sociological Theory (3) Comparative study of major theorists in the nineteenth and twentieth centuries. Usually offered every fall.

65.611 Modern Sociological Theory (3) An analysis of modern sociological theories and major schools of social thought. Problems of theory construction. Usually offered every spring. *Prerequisite:* 65.610.

65.620 Introduction to Social Research (3) Familiarizes students with conceptual and procedural aspects of a variety of methods—both quantitative and qualitative—used in social research. Considers epistemological, ethical and interpretive implications associated with different strategies of empirical observation. Develops logic of sociological analysis, builds basic skills in collection and analysis of social data, and enhances ability to interpret and act on research findings. Usually offered every term. *Prerequisite:* 42.514.

65.622 Selected Topics in Social Research Skills (1) Introduction to a specific research tool or method currently used in sociology; the options include research strategies (e.g., telephone surveys, focus groups), analysis techniques (e.g., event history, qualitative data), or particular applications of research methods (e.g., program evaluation, community action). May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* 65.620 or permission of instructor.

65.630 Conflict and Change: Macrosociological Perspectives (3) Analysis of socio-political processes in the development of national, regional, and world systems. The formation of social movements in this context. Usually offered every spring. *Prerequisite:* 65.515 or permission of instructor.

65.642 Training Program Design (3) An introduction to the design and delivery of adult training programs, emphasizing the development of skills in a variety of training components: needs assessment, goals and objectives, training methodologies and materials, and evaluation. This course is equally appropriate for novice trainers or those with previous experience. Usually offered every fall. *Note:* not open to students who have taken 21.635/65.635 Training Program and Design.

65.648 Education and Development: Sector Analysis (3) Examines education as a social institution that both reflects and influences social, economic, and political life in nation states and globally. Emphasizes the role of education as an engine for change in the Third World. Organized around a logical framework of analysis, sometimes called the Sector Assessment Format, this course analyzes and

compares educational systems by examining issues of access, equity, international efficiency, quality, and external efficiency. Offered irregularly. *Note:* not open to students who have taken 21.678 Comparative and International Education or 65.678 Education and Development: Sector Analysis.

65.650 Stratification: Race and Ethnicity (3) This course investigates the structures of racial and ethnic stratification including their relationship to socio-economic inequality and stratification. Patterns of race and ethnic stratification are analyzed in their domestic, historical and international manifestations. The social constructions of racial and ethnic groups, consciousness and politics are considered. Topics include the interaction of class, race, ethnicity and gender. Usually offered every fall.

65.665 Economic Development and Social Change (3) A course on societal development that explores what it means for a society to "develop." How do we measure a society's development and what is known about the material, economic, political, social and cultural conditions necessary for development? What worked and what did not work in past development strategies and which strategy is most likely to succeed in the 1990's global socio-economic system? Meets with 65.365. Usually offered every spring.

65.670 Gender, Family, and Work (3) Informs students about the interrelationship between work and family for both men and women. The course deals with research and policy concerns in both a national and cross-cultural perspective. Usually offered every spring. *Prerequisite:* 65.560, 65.570, or permission of instructor.

65.680 Social Policy Research (3) An introduction to research techniques in the fields of applied sociology, evaluation research, and the interdisciplinary arena of social policy studies. Provides students with the necessary sociological context and methodological expertise for participating in practical social policy research. Usually offered every fall. *Prerequisite:* 65.580 or permission of instructor.

65.685 Proseminar: International Training and Education (3) The culminating course for Master's candidates in the International Education program. Serving as a capstone course, it requires students to prepare a portfolio that synthesizes their program of study and identifies and analyses organizations that operate in their area. Usually offered every spring. *Prerequisite:* 21.625/65.625 or 21.678/65.678; open to International Education M.A. candidates or by permission of instructor. *Note:* not open to students who have taken 21.650 Proseminar: International Education.

65.690 Independent Study Project in Sociology (1-6)

65.691 Internship (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* graduate standing and authorization of dean and instructor.

65.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

65.720 Research Seminar in Sociology (3) Identification and development of research topics, relevant theoretical/conceptual perspectives and methodologies. Writing, organization and argumentation. Students research and write substantial papers based on appropriate sources and/or bases of data. Ph.D. candidates may use this course to develop dissertation proposals. Usually offered every fall.

65.750 Seminar in Social Stratification (3) Focuses on theoretical and methodological critiques of contemporary social stratification research. Topical themes are designed to enhance the student's ex-

pertise in the field. Emphasis is on the most recent scholarship that examines the relationships between class, race/ethnicity and gender. Topics and approaches vary with instructor. May be repeated for credit in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* permission of instructor.

65.770 Seminar in Gender and Family (3) The focus of this seminar is on reconstructing social science knowledge and encouraging primary research using gender as a guiding analytic category along with race and social class. Usually offered alternate springs. *Prerequisite:* permission of instructor.

65.795 Master's Research: Independent Study in Sociology (3) Directed research under the supervision of a faculty member selected by the student. Preparation of a substantial research report on a topic related to the student's field of concentration. Offered irregularly. *Prerequisite:* permission of instructor.

65.797 Master's Thesis Independent Study (1-6)

65.799 Doctoral Dissertation Independent Study (1-12) Directed dissertation research under the supervision of the student's dissertation committee chair. Open to graduate students whose dissertation proposal has been approved by the department. Usually offered every term.

Performing Arts: Music, Theatre, Dance, and Arts Management

Undergraduate Courses

67.102 Modern Dance I (3) Students learn interrelationships between dance and society, which form the context for movement expression. Skill development is accompanied by a study of twentieth century choreographers and the social conditions shaping their artistry. Readings, videos, concerts, classwork, written work, and work in technique enhance participants' knowledge. Usually offered every term.

67.103 Beginning Jazz Dance (3) Study of jazz as a form emerging from African immigrant encounters with American society. The development of jazz dance in America covers the history of minstrelsy, vaudeville, and music theater. Technique development is augmented by readings, videos, readings, concerts, and written papers. Usually offered every term.

67.104 Beginning Ballet (3) Study of ballet from the sixteenth century European courts, as a form expressing the power and hierarchy of various monarchs, to its contemporary manifestations. Readings, videos, and concerts provide a social context while development of technical skill helps cultivate proficiency and understanding. Usually offered every term.

67.108 Beginning Tap Dance (3) Study of tap's emergence as a cross-cultural integration of Irish and African forms in the United States and of its development as a creative expression for urban African Americans. Technical development is augmented by readings, videos, concerts and papers. Usually offered every term.

67.109 Dance Practicum (1) Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the 3 credit dance course at the 100 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite:* completion of equivalent 3 credit dance technique course and permission of the director of dance.

67.110 Understanding Music 1:1 (3) An introduction to musical language through listening and comprehension. The fundamentals of acoustics, melody, harmony, form, texture, and color in a wide range of music from ancient and global music to European concert music. Includes listening and concert attendance requirements. Usually offered every term.

67.115 Theatre: Principles, Plays, and Performance 1:1 (3) An overview of the principles of drama from the ancient Greeks to contemporary society. The class draws on theatre history and social context, the reading of great literature, critical analyses, and artistic exploration to culminate in the experience which is the essential element of the art itself—performance. Usually offered every term.

67.120 Music Fundamentals (3) Introductory study of musical notation and theory including rhythm, intervals, scales, keys, chords, and musical forms. Usually offered every fall. *Note:* not open to students who have taken 67.126 Music Theory for Non-Majors.

67.122 The Evolution of Jazz and Blues (3) Cultural sources and growth of divergent stylistic characteristics of jazz and rock through the past hundred years. Usually offered every term.

67.123 Selected Topics in Music (3) Study of an area such as orchestral, chamber, opera, American, folk, twentieth-century music, rock, or jazz theory. May be repeated for credit in the same term; topic must be different. Usually offered every term.

67.124 Harmony I (3) The principles of part-writing and harmonic progression through compositional and analytical work in which students harmonize given melodies or basses. Materials are limited to tonal music, triads and seventh chords with their inversions, cadences, harmonic progression, and simple modulations. Usually offered alternate falls. *Prerequisite:* 67.120 or equivalent experience in music.

67.125 Harmony II (3) A continuation of part-writing and harmonic progression through compositional and analytical work. Materials include more complex structures, chromatically altered chords, and modulation to distant keys. Usually offered alternate springs. *Prerequisite:* 67.124.

67.142 Concert Choir (1) Prepares and presents major works of choral literature. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

67.143 University Singers (2) Small, highly select, traveling choral ensemble which presents both sacred and secular programs. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

67.144 University Orchestra (1) Concerts, sight-reading, and study of selected compositions. Open to all students, faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.145 Instrumental Ensembles (1) String, mixed, and wind ensembles, and jazz workshop. Open to students, faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.160 On Stage! Dance—Music—Theatre 1:1 (3) A stage performance of a work of art is a highly controlled presentation using the artistic elements of space, movement, time, sound, and color. This study explores

how these elements can be used to bring about audience reactions to dance, music, and theatre. Usually offered every term.

67.181 Stage Make-Up (1) Basics of stage make-up: make-up material, make-up lists, color charts, facial anatomy, and corrective make-up. Usually offered alternate springs.

67.200 Dance and Society 1:2 (3) Students learn about the cultural importance of dance throughout history, including its ritual, social, and theatrical functions. Students discover the diverse ways and cultural contexts in which people express fundamental experiences and emotions through dance. Usually offered every spring. *Prerequisite for General Education credit:* 67.160 or 67.115.

67.202 Modern Dance II (3) Continuation of 67.102. Study of additional choreographers and the social context of their work. Skill development is augmented by readings, videos, concerts and written papers, promoting and understanding of the role of dance as a form of creative expression that gives insight into society. Usually offered alternate falls. *Prerequisite:* 67.102 or permission of instructor.

67.203 Intermediate Jazz Dance (3) Continuation of 67.103. Analysis of jazz as an integral part of a creative expression in America and as developed by choreographers in a variety of twentieth century dances. Technical work is augmented by readings, videos, concerts, and written papers. Usually offered every term. *Prerequisite:* 67.103 or permission of instructor.

67.204 Intermediate Ballet (3) Development of technical skills and performance ability in classical ballet vocabulary. Usually offered alternate years. *Prerequisite:* 67.104 or permission of instructor.

67.205 Masterpieces of Music 1:2 (3) Listening to and analyzing masterpieces of Western music from the Middle Ages to the present day. The course includes a variety of genres and styles with background study into the historical era and particular composers. Usually offered every spring. *Prerequisite for General Education credit:* 67.110. *Note:* not open to those who have taken 67.121 Music Appreciation II.

67.208 Intermediate Tap Dance (3) Study of the impact of segregation on the development of tap and the form's resurgence in the 1970s as a corollary to the civil rights movement. Also, the use of tap by contemporary artists. Technical development is augmented by readings, videos, concerts, and papers. Usually offered every term. *Prerequisite:* 67.108 or permission of instructor.

67.209 Dance Practicum (1) Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the 3 credit course at the 200 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite:* completion of equivalent 3 credit dance technique course and permission of the director of dance.

67.210 The Great Composers: Lives and Music 1:2 (3) The place of music in society is reflected in the lives and work of a series of major composers who represent contrasting eras, nationalities, musical styles, and aesthetic goals. Students examine the social history of music through listening, analysis, reading, and research into the fascinating people who have made music. Usually offered every fall. *Prerequisite for General Education credit:* 67.110 or 07.105 or 67.160.

67.215 Opera on Stage and Film 1:2 (3) Classics of operatic repertoire. Through readings, viewing videotapes, and attending live productions, students confront the literary sources, dramatic and musical structures, cultural forces, and the social, political, and historical environments that shaped the works and gave them life. Usually offered every spring. *Prerequisite for General Education credit:* 23.120 or 23.135 or 67.110 or 67.160.

67.220 Reflections of American Society on Stage and Screen 1:2 (3) Artistic and cultural developments and societal phenomena as reflected in stage, film, and television performance in the twentieth century United States. By reading the written versions and viewing the productions, students investigate and analyze the relationships between the creative artists, their produced works, and the societal contexts within which they originated. Usually offered every term. *Prerequisite for General Education credit:* 17.105 or 23.135 or 67.160.

67.225 The African American Experience in the Performing Arts 1:2 (3) African American contributions to uniquely American forms and institutions in the performing arts. The course examines the artistic and cultural implications of these forms—from minstrelsy, vaudeville, and tap dance to jazz, blues, and gospel—set against the societal phenomena that shaped them, as well as the influence of African Americans on the broad range of performing arts genres, including musical theatre, drama, comedy, dance, and film. Usually offered every fall. *Prerequisite for General Education credit:* 17.105 or 23.135 or 67.110.

67.227 Musicianship I (3) The practical techniques of reading, hearing, sight singing, playing, and conducting simple (diatonic) musical materials and the methods by which those tasks are accomplished. Includes lab work in keyboard skills, conducting, score reading, and improvisation. Usually offered every fall. *Prerequisite:* 67.120 or equivalent musical experience. *Note:* not open to students who have taken 67.127 Musicianship I.

67.228 Musicianship II (3) The continuation of reading, sight singing, playing, and conducting scores into chromatic and modal materials. Includes lab work in keyboard skills, conducting, score reading, and improvisation. Usually offered every spring. *Note:* not open to students who have taken 67.128 Musicianship II. *Prerequisite:* 67.227 or equivalent musical experience.

67.251 Fundamentals of Acting I (3) Beginning performance skills for actors, including elementary scene study, stage movement, and role analysis. Usually offered every term.

67.252 Fundamentals of Acting II (3) A continuation of study in beginning performance skills for actors. Includes scene study, textual analysis, and character exploration. Usually offered every term. *Prerequisite:* 67.251 or permission of instructor.

67.260 Principles of Production I (4) Techniques of stagecraft including scenery, properties, lighting, and sound, along with theatrical production philosophy and organization and an overview of the process of design. Mandatory lab sessions provide experience in scenic construction, basic electricity and stage lighting, and live-performance support. Usually offered every fall.

67.261 Principles of Production II (4) Continuation of 67.260. Concentrates on the artistic concepts of technical production and how production concepts are realized in stage performance. Usually offered every spring. *Prerequisite:* 67.260.

67.265 Theatre Practicum (1) Provides the student with practical experience in designated areas of technical theatre: set construction and lighting, costuming, public relations, and stage management. May be repeated for credit but not within the same term; topic must be different. Usually offered every term.

67.302 Modern Dance III (3) Continuation of 67.202. Study of choreographers and their social context augmented by readings, videos, concerts, and written papers. Advanced technical development and artistry emphasized. Meets with 67.602. Usually offered every term. *Prerequisite:* 67.202 or permission of instructor.

67.303 Advanced Jazz Dance (3) Continuation of 67.203. Advanced technical development and artistry. Emphasis on understanding jazz within its social and artistic context. Technical development augmented by readings, videos, concerts, and written papers. Usually offered every spring. *Prerequisite:* 67.203.

67.304 African Dance (3) Students learn the inter-relationship between movement and sound in African dance and develop a sense of creative expression and group interaction. Assigned readings, class trips, concert viewings, and class discussions enhance the participants' knowledge of traditional African society while providing a historical outlet for cross-cultural understanding and appreciation. Usually offered every term.

67.305 History and Philosophy of Dance I: Fifteenth–Nineteenth Century (3) The evolution of Western theatrical dance, with emphasis on the fifteenth through the nineteenth centuries. Meets with 67.605. Usually offered alternate falls.

67.306 History and Philosophy of Dance II: Twentieth Century (3) A chronological survey of dance in the twentieth century. Writings and videos of contemporary dance authorities and artists are used as source materials. Meets with 67.606. Usually offered alternate falls. *Prerequisite:* 67.305.

67.309 Dance Practicum (1) Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the three credit dance course at the 300 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite:* completion of equivalent 3 credit dance technique course and permission of the director of dance.

67.322 History of Music I: From Antiquity to 1700 (3) Music in Western civilization from ancient times to the eighteenth century, including a brief survey of primitive and oriental music. Illustrated with slides and recordings. Usually offered alternate falls. *Prerequisite:* ability to read music notation.

67.323 History of Music II: From 1700 to the Present (3) Music in Western civilization from the eighteenth century to the present. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* ability to follow a musical score.

67.324 Form and Analysis (3) Exploration of the structural principles of tonal music from the Baroque to the early twentieth century. Examines the interaction of harmony and melody in form. Includes sonata, rondo, song form, and binaries. Usually offered alternate falls. *Prerequisite:* 67.125.

67.325 Counterpoint (3) The study of contrapuntal writing from tonal sources including the invention, chorale-prelude, and fugue through analysis and composition of examples. Also includes invertible counterpoint and canon. Usually offered alternate springs. *Prerequisite:* 67.324. Note: not open to students who have taken 67.321 Music Theory IV: Tonal Counterpoint.

67.331 Music Technology I (3) Familiarizes students with the creative use of new sound technology (synthesizers, computers, etc.). The course covers, with hands-on experience, the techniques applied in music composition and/or performance on an elementary level. Usually offered alternate falls.

67.332 Music Technology II (3) A continuation of 67.331. Covers the principles of electronic music composition and analysis of performance styles. The course focuses on actual composition and performance of works created by students. Usually offered alternate springs.

67.340 From Scene into Song (3) Focuses on the theoretical and experiential exploration of the component skills necessary for the music theatre form. Students acquire skills for application to the difficult aesthetic task of vocal delivery combined with a portrayal of a believable character. Usually offered every spring. *Prerequisite:* 67.127, 67.128, and 67.251.

67.342 Vocal Techniques for Music Theatre (3) Offers students the opportunity to learn about the function, anatomy, care, and use of the vocal instrument. Topics include the psychological aspects of singing, posture and breathing, phonation, resonance and vocal quality, articulation, vocal problems, diction, spontaneity, and artistry. Usually offered alternate falls. *Prerequisite:* 67.127, 67.128, and 67.251.

67.346 Survey of Music Theatre (3) An overview of the historical development of music theatre from its earliest beginnings to the 1980s. Students view films and listen to music, analyzing the work of important composers and librettists. Important operatic milestones are included and their musical influence on the genre analyzed. European roots are studied. Usually offered alternate falls.

67.350 Fundamentals of Acting III (3) An intermediate-level acting class focusing on character analysis within the scene and within the play. Class discussion, instructor critique, improvisation, and vocal and physical warm-up are emphasized. Usually offered alternate falls. *Prerequisite:* 67.251 and 67.252 or permission of instructor.

67.355 Speech and Voice for the Theatre (3) For theatre majors concerned with developing effective techniques of voice and diction. Usually offered every spring.

67.362 Lighting Design (3) Lighting technology, electrical theory, and the design of lighting as an integral part of the performing arts. Usually offered alternate springs. *Prerequisite:* 67.260 or permission of instructor.

67.364 Basics of Scene and Costume Design (3) Introductory course dealing with the technical and artistic aspects of scene and costume design. Draws on the fine arts, architecture, history, critical analysis, and the student's own artistic exploration to facilitate an understanding of how these are applied to stage production. Usually offered every spring.

67.365 Theatre History I: From the Greeks to the Renaissance (3) The historical pattern of drama as an art form and the social

function of the theatre from its earliest appearance through the Renaissance. Meets with 67.665. Usually offered every fall.

67.366 Theatre History II: From Baroque to the End of the Nineteenth Century (3) The historical pattern of drama as an art form and the social function of the theatre from the baroque to the present. Meets with 67.666. Usually offered alternate springs. May be taken independently of 67.365.

67.367 Theatre History III: Twentieth Century (3) American and European drama of the twentieth century. Meets with 67.667. Usually offered alternate springs.

67.385 History of Italian Instrumental Music (3) An examination of the Italian contribution to instrumental music from the Middle Ages through the contemporary period, including the overtures and instrumental deviations of the Bel Canto school. Landini, Vivaldi, Scarlatti, Paganini, Bellini, Respighi and Berio are among the composers discussed. Usually offered every fall. *Prerequisite:* ability to follow a musical score.

67.390 Independent Reading Course in Performing Arts (1-6)

67.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

67.398, 67.399 Honors, Junior Year (1-6), (1-6) May be repeated for credit but not in the same term; topic must be different. Usually offered every fall and spring. Permission of department chair and honors director required.

67.404 Advanced Ballet (3) Continuation of 67.204. Emphasis on development of artistry and complexity of skills and movement combinations. Advanced readings and written work on contemporary ballet as a reflection of society. Meets with 67.604. Usually offered every fall and spring. *Prerequisite:* 67.204 or permission of instructor.

67.409 Dance Practicum (1) Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the 3 credit dance course at the 400 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite:* completion of equivalent 3 credit dance technique course and permission of the director of dance.

67.411 Composition of Dance I (3) Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. Meets with 67.611. May be repeated for credit but not within the same term; topic must be different. Usually offered alternate years. *Prerequisite:* permission of instructor.

67.412 Composition of Dance II (3) Continuation of 67.411. Meets with 67.612. May be repeated for credit but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* 67.411 or permission of instructor.

67.440 Stage Management (3) Gives the student a broad overview of stage management and related production management theory, with concentration on rehearsal and performance management techniques. Usually offered alternate springs.

67.445 Senior Capstone: Theatre/Music/Music Theatre (3) Provides the undergraduate theatre major with a comprehensive integrative seminar and guides the student to the realization of a creative capstone project. Builds upon the foundation of theory and experience acquired throughout the undergraduate years. Usually offered every spring.

67.450 Rotating Topics in Theatre (1-3) Designed for advanced undergraduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques for improvisation, advanced acting styles, children's theatre, creative dramatics, Shakespeare, stage management, music theatre, directing methodologies, auditioning and monologue preparation and other selected topics. Meets with 67.650. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

67.490 Independent Study Project in Performing Arts (1-6)

67.491 Performing Arts: Internship (1-6) Usually offered every term.

67.498, 67.499 Honors, Senior Year (1-6), (1-6) May be repeated for credit but not in the same term; topic must be different. Usually offered every fall and spring.

Graduate and Advanced Undergraduate Courses

67.506 The Moving Body (3) The practical application of anatomy and kinesiology to performance work in dance, music, and theatre. Warm-up exercises, injury prevention, sports, and everyday activities are also covered. Usually offered every fall. *Prerequisite:* permission of instructor.

67.507 Principles of Movement (3) Principles of Movement is a system of analysis for describing and understanding the qualitative aspects of movement. Students learn to expand their movement vocabulary, both spatially and dynamically, and to develop their verbal skills in observing and describing dance. Usually offered every spring.

67.526 Orchestration (3) Scoring for various chamber ensembles and full orchestra. Analysis of the orchestration of composers from the classical era to the present. Usually offered alternate falls. *Prerequisite:* 67.324, which may be taken concurrently. *Note:* not open to students who have taken 67.326 Orchestration.

67.527 Instrumental and Choral Conducting (3) Techniques and preparation for conducting both instrumental and choral repertoire taught through preparation of a variety of scores and in-class performance of examples. Students learn patterns, cues, expressive gesture, score reading/analysis, and marking. Includes advanced work on style and musical idiom. Usually offered alternate springs. *Prerequisite:* 67.228 or equivalent experience.

67.535 Studies in Music History (3) Concentration in an area such as opera, non-Western music, or performance practices. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

67.537 Music: Analytical Studies (3) A study of analytical techniques applied to a representative sample of music from the medieval through contemporary periods. Usually offered alternate falls. *Prerequisite:* 67.325.

67.545 Chamber Ensembles (1) Performance in particular areas of music literature by small, select groups, including Opera Workshop and Collegium Musicum. With permission of instructor may be repeated for credit; content must be different. Usually offered every term. *Prerequisite:* audition.

67.552 Directing Techniques (3) A studio course providing training in the foundations of directing for the theatre by applying various directorial theories, forms of play analysis and types of staging to particular scripts. Usually offered every fall. *Prerequisite:* 67.115,

67.251, and 67.260 or permission of instructor. *Note:* not open to students who have taken 67.352 Beginning Directing.

67.555 Acting and Directing for the Camera (3) Training for both actors and directors on techniques for working on film, TV and video. Actors and directors interact on various script and media formats including commercials, sitcom, drama, and industrial film work. Usually offered every spring. *Prerequisite:* permission of instructor.

67.557 Creative Writers' Performance Laboratory (3) An exploratory course for writers, actors, and directors for study and development of original scripted works and the process inherent in the creation of a dramatic piece. Attention is given to special acting, directing, and writing techniques needed to realize a polished performance of students' original works. Usually offered every spring. *Prerequisite:* some experience in writing, acting, or directing, or permission of instructor.

67.570 Survey of Arts Management (3) Study of various facets of management in the arts: contracts, logistics, organization, etc. Usually offered every fall. *Prerequisite:* permission of instructor.

67.571 Promotion and Public Relations for Performing Arts (3) Examines the techniques of audience development for arts institutions. Basic promotion and public relations skills. Usually offered every spring. *Prerequisite:* permission of instructor.

67.585 Creative Theories and Criticism in Performing Arts (3) Aesthetic and critical constructs which apply to the interrelationship between the performing arts and criticism of them. Usually offered every spring. *Prerequisite:* permission of instructor for non-majors.

67.590 Independent Reading Course in Performing Arts (1-6)

Graduate Courses

67.602 Modern Dance III (3) Study of choreographers, their work, and their social context augmented by readings, videos, concerts, and written papers. Advanced technical development and artistry emphasized. Meets with 67.602. Usually offered every fall and spring. *Prerequisite:* permission of instructor.

67.604 Advanced Ballet (3) Emphasis on developing artistry and complexity of skills and movement combinations. Advanced readings and written work on contemporary ballet as a reflection of society. Meets with 67.404. Usually offered every fall and spring. *Prerequisite:* permission of instructor.

67.605 History and Philosophy of Dance I: Fifteenth-Nineteenth Century (3) The evolution of Western theatrical dance, with emphasis on the fifteenth through the nineteenth centuries. Meets with 67.305. Usually offered alternate falls.

67.606 History and Philosophy of Dance II: Twentieth Century (3) A chronological survey of dance in the twentieth century; writings and videos of contemporary dance authorities and artists are used as source materials. Usually offered alternate falls. Meets with 67.306. *Prerequisite:* 67.605.

67.609 Dance Practicum (1) Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the 3 credit dance course at the 600 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite:* completion of equivalent 3 credit dance technique course and permission of the director of dance.

67.611 Composition of Dance I (3) Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. Meets with 67.411. May be repeated for credit but not within the same term; topic must be different. Usually offered alternate years. *Prerequisite:* permission of instructor.

67.612 Composition of Dance II (3) Continuation of 67.611. Meets with 67.412. May be repeated for credit but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* permission of instructor.

67.650 Rotating Topics in Theatre (1-3) Designed for advanced graduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques in improvisation, advanced acting styles, children's theatre, Shakespeare, stage management, music theatre, directing methodologies, auditioning and monologue preparation, and other selected topics. Meets with 67.450. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

67.665 Theatre History I: From the Greeks to the Renaissance (3) The historical pattern of drama as an art form and the social function of the theatre from its earliest appearance through the Renaissance. Meets with 67.365. Usually offered every fall.

67.666 Theatre History II: From Baroque to the End of the Nineteenth Century (3) The historical pattern of drama as an art form and the social function of the theatre from the baroque to the present. May be taken independently of 67.665. Meets with 67.366. Usually offered alternate springs.

67.667 Theatre History III: Twentieth Century (3) American and European drama of the twentieth century. Meets with 67.367. Usually offered alternate springs.

67.672 Rotating Topics in Arts Management (3) An exploration of major areas of arts management: grants and fund raising; box office, income, and general administration; and arts in education. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 67.570 or permission of instructor.

67.673 Fund-Raising Management for the Arts (3) Examines the factors most conducive to the financial health of institutions and ways of obtaining and maintaining funding. Usually offered every fall. *Prerequisite:* 67.570 or permission of instructor.

67.690 Independent Study Project in Performing Arts (1-6)

67.691 Performing Arts: Internship (1-6) Usually offered every fall and spring.

67.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

67.749 Research Performance: Lecture Recital (3-6) Research topics for M.A. candidates in music performance who choose to present a lecture-recital instead of a thesis. Work includes intensive instrumental or vocal research in lecture topic area. May not be taken before the M.A. recital requirement has been completed. Must be under the supervision of a full-time faculty adviser. Usually offered every term. *Prerequisite:* permission of department chair.

67.797 Master's Thesis Seminar (1-6) Usually offered every term.

67.798 Nonthesis Option Seminar (3-6) Usually offered every term.

Applied Music

Undergraduate Courses

68.100 Class Instrumental Study (1) Beginning study in piano. Prepares the beginning student for private study. May be repeated for credit for a second semester at a more advanced level. Usually offered every term. *Prerequisite:* authorization from the department.

68.101 Class Vocal Study (1) Basic principles of singing. Prepares the beginning student for private study, for more effective choral singing, etc. May be repeated for a second semester at a more advanced level. Usually offered every term. *Prerequisite:* authorization from the department.

68.121 Private Instrumental or Vocal Study (1) Students may enroll in private study for voice, piano, organ, guitar, or other orchestral instruments. May be repeated for credit with permission of instructor; different repertoire is assumed. Usually offered every term. *Prerequisite:* 68.100 (piano), 68.101 (voice), or permission of instructor. *Prerequisite:* authorization from the department.

68.122 Private Instrumental or Vocal Study (2) Students may enroll in private study for voice, piano, organ, guitar, or other orchestral instruments, conducting, or composition. May be repeated for credit with permission of instructor, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* authorization from the department.

68.334 Private Instrumental or Vocal Study (4) Junior performance honors. Full recital required. Usually offered every term. *Prerequisite:* audition and permission of department chair.

68.434 Private Instrumental or Vocal Study (4) Senior performance honors. Full recital required. Usually offered every term. *Prerequisite:* audition and permission of department chair.

Graduate and Advanced Undergraduate Courses

68.534 Studio Accompanying (2) Provides piano students with practical studio experience with singers and instrumentalists; includes two supervised hours (lessons) and four preparation hours per week. May be repeated for credit with permission of instructor, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition consisting of sight-reading and two songs handed out a week in advance.

Graduate Courses

68.791 Private Instrumental or Vocal Study (1) Students may enroll in private study for voice, piano, organ, guitar, or other orchestral instruments. May be repeated for credit with permission of instructor; different repertoire is assumed. Usually offered every term. *Prerequisite:* authorization from the department.

68.792 Private Instrumental or Vocal Study (2) Students may enroll in private study for voice, piano, organ, guitar, or other orchestral instruments, conducting, or composition. May be repeated for credit with permission of instructor, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* authorization from the department.

Justice, Law and Society

Undergraduate Courses

73.100 Justice in America 4:1 (3) The operations of formal systems of social control and justice in contemporary America; the conditions, values, and processes that have defined them; and the limits of their authority over the individual. Emphasis on the evolution of the criminal, civil, juvenile, and administrative justice systems. Usually offered every term.

73.103 Critical Issues in Justice (3) Political, legal, economic, and social problems of justice emphasizing crime, deviance, and other conduct resulting in such socially disapproved labels as mentally ill, delinquent, and criminal. Moral and theoretical issues involved and mechanisms for remedying injustice and controlling socially disapproved behavior. Usually offered every term.

73.104 Introduction to Systems of Justice (3) An overview of the formal mechanisms of social control as manifested by the components of the criminal justice system (legislatures, planning agencies, law enforcement, courts, and corrections), civil justice systems, and such other mechanisms as civil commitment. Alternatives to formal processing including diversion, pretrial screening and dispute-settlement programs. Usually offered every term.

73.110 Western Legal Tradition 2:1 (3) From the biblical era to the American experiment, the Western legal tradition encompasses primitive, divine, natural, canon, secular, and common law. This course examines the key legal documents and issues of the tradition including the Code of Hammurabi, the Ten Commandments, the trials of Socrates and Jesus, the Magna Carta, the Rule of Law, and Common Law. Usually offered every term.

73.200 Deprivation of Liberty 4:2 (3) Analysis of the values, costs, and logic of the manners in which classes of people (e.g., criminals, drug abusers, the mentally ill) are defined as dangerous; analysis of the specific means of limiting their ability to harm others, the public order, or themselves. Emphasis on imprisonment, institutionalization, probation, capital punishment, and enforced treatment. Usually offered every term. *Prerequisite for General Education credit:* 73.100 or 54.105 or 57.105.

73.205 History and Philosophy of Criminology (3) Development of theories of criminology and criminal justice over the course of history with special attention to the period from 1700 to the present. Review and evaluation of contemporary knowledge and theories of crime. Usually offered every term.

73.206 Justice and Deviant Behavior (3) Consideration of conformity and deviance in the light of broader issues of social justice (poverty, racism, sexism, alienation, etc.), of interactions between persons and groups that engage in and sanction deviance, of the role of ideology in the definition of deviance, and of the social policy consequences of deviance definition. Usually offered every fall.

73.210 Policing in America: An Introductory Survey (3) A survey of the history, development, environment, organization, and sociology of American law enforcement, with emphasis on state and local police agencies. Police as an agency of social control; police as a service agency; police as a part of government and of the justice system. Usually offered every fall.

73.211 Contemporary Issues in American Law Enforcement (3) Policy formulation; operational procedures; patrol; performance measurement; women and minorities in policing; labor-management relations; corruption; political accountability; use of force; citizen complaints. Usually offered every spring. *Prerequisite:* 73.210.

73.215 Violence and Institutions 4:2 (3) The capacity for violence by agents of an institution acting in service of organizational goals. Through evaluation of case studies, students gain an understanding of the dynamics of institutional violence and its threat to human life. Topics include: hazardous workplaces, unethical experimentation, dangerous products, torture and terrorism, police and prison use of deadly force, and the death penalty. Usually offered every spring. *Prerequisite for General Education credit:* 73.100 or 57.105.

73.220 Cities and Crime 2:2 (3) Have crime and the urban environment always been linked? This course examines their relationship from biblical times to the present. Topics include: the criminal underworld in the eighteenth century; the emergence of juvenile delinquency following the industrial revolution; the literary imagination and mid-nineteenth century urban crime; and crime in developing countries. Usually offered every term. *Prerequisite for General Education credit:* 23.115 or 29.115 or 73.110.

73.225 American Legal Culture 2:2 (3) The law has become one of the most important regulators in American culture. How did this happen? This course explores the transformation of American legal culture from the colonial era to the present, considering such issues as the challenges of crime, the Cold War and civil rights, the rise of the surveillance state, and images of law in popular culture. Usually offered every term. *Prerequisite for General Education credit:* 73.110 or 53.105 or 60.105.

73.230 Corrections in America (3) Survey of current correctional thought and practices in the United States and their evolution. Overview of correctional treatment in different kinds of institutions and in the community. Usually offered every fall.

73.253 Juvenile Delinquency: Causes, Prevention and Treatment (3) Development of the individual through childhood and adolescence as it relates to delinquency and crime; special characteristics of juvenile criminality; current principles, policies, and practices for its prevention and control. Factors producing delinquency. Juvenile detention, juvenile court, training schools, and treatment of the offender. Usually offered every spring.

73.301 Drugs, Consciousness and Human Fulfillment (3) Positive approaches to achieving alternative states of consciousness with and without drugs; the nonaddictive use of addicting drugs; a balanced assessment of the latest findings on the dangers and benefits of the most widely used nonopiate recreational drugs, such as marijuana, tobacco, caffeine, alcohol, quaaludes, and cocaine; choices for individuals and society regarding the use and control of the substances. Usually offered every spring.

73.303 Drugs, Alcohol, and Society (3) Fundamental issues regarding alcohol and drug use and abuse; addiction; treatment and prevention; the history of alcohol, opiates, and other drugs in the United States and other countries, particularly Great Britain; the formulation of public policies and laws; impact and costs for society. Usually offered every fall. *Note:* not open to students who have taken 73.300 Drugs and Society or 73.302 Alcoholism and Society.

73.307 Justice, Law and the Constitution (3) The historical development, theory, principles, and content of criminal and civil law and their interrelationships; exploration of due process, rule of law, and the role of the Constitution in protecting rights and limiting the actions of both civil and criminal justice agencies. Usually offered every term.

73.308 Justice, Morality, and the Law (3) Moral issues involved in administering justice in society, emphasizing the nature of human rights and the ideal of justice. Moral consequences of official control actions of lawmakers, justice system careerists, and others involved in the definition of crime and deprivation of liberty, stressing "moral offenses." Offered irregularly. *Prerequisite:* 60.105.

73.309 Justice and Public Policy (3) Examines current basic national, state, and local policy issues that affect the definition of crime and shape public agency responses toward crime. The objective of the course is to sharpen and improve the student's policy-oriented thinking about crime in a constitutional democracy and to develop a method to evaluate policy related to crime. Usually offered every term. *Note:* not open to students who have taken 73.522 Crime and Public Policy.

73.310 The Legal Profession (3) Analysis of the structure of the legal profession from U.S. and cross-cultural perspectives. Topics include the structure and organization of the bar, the social hierarchy of the profession, ethical and moral issues faced by lawyers, the changing status of women and minorities in the profession, and access to legal services for the poor. Usually offered alternate falls.

73.311 Introduction to Forensic Science (3) Scientific analysis and identification of evidence and documents, special police techniques, interpretation of medical reports, and preparation of reports. Usually offered every fall.

73.313 Organized Crime (3) Organized crime in the United States; its effect on society and the need for integrated response by people, government, and business. Organized crime as a social subculture. Socioeconomic and political aspects of organized crime emphasizing internal controls and external relations with various political and economic sectors. Usually offered every term.

73.315 White-Collar and Commercial Crime (3) Economic and fiscal implications and enforcement problems. Fraudulent association, bankruptcy fraud, monopoly and coercive competitive practices, and illegal use of securities and credit cards. Problems of theoretical criminology presented by white-collar crime. Usually offered every spring.

73.332 Corrections and the Constitution (3) Examination of the evolving relationship between correctional agencies and the U.S. Constitution. Landmark court decisions are reviewed within the framework of competing demands for fairness and crime control. Contemporary correctional issues and emerging innovations are presented and discussed in the context of cost, effectiveness, and constitutional guarantees and protections. Usually offered every fall.

73.333 Law, Psychology, and Justice (3) Examines psychological research related to evidentiary issues in the criminal and civil justice process. Areas covered include accuracy of childhood testimony, eyewitness identification, judicial use of social science research, impact of nonadversarial versus adversarial expert testimony. Usually offered every spring.

73.342 Judicial Administration (3) Major issues in criminal and civil justice systems, including detention, plea bargaining, pre-trial

motions, collateral attack. Roles of prosecutor and defense counsel. Discovery and other instruments for narrowing issues and expediting litigation. Alternative methods of resolution, judicial management problems, fact-finding, and the jury system. Usually offered every fall. *Note:* not open to students who have taken 73.340 Judicial Administration: Criminal or 73.341 Judicial Administration: Civil.

73.343 Issues in Civil Justice (3) This course examines the institutional arrangements that constitute our system of civil justice. It describes the various decisions that are made to transform a grievance between citizens into a matter that comes before civil courts as well as those procedures followed by the courts to resolve a matter. Usually offered every spring.

73.352 Psychiatry and the Law (3) Basic psychiatric principles including contemporary views of causes, manifestations, patterns, and treatments of psychiatric and behavioral disorders; trends in the use of psychiatric resources to deal with deviant behavior within and without the criminal justice system. Topics include: incompetence as bar to trial, insanity as defense, civil commitment, drug addiction, alcoholism, psychiatry in processing and treating juvenile offenders, and rehabilitative efforts of the corrections system. Usually offered every fall.

73.380 Introduction to Justice Research (3) Social research methods as applied to justice research. The function and role of justice research and the nature and form of research designs, methods, and tools. Usually offered every term. *Prerequisite:* 42.202 and junior standing.

73.382 Determination of Fact (3) An introduction to fact finding. Considers how necessary factual bases for administrative, managerial, legislative, and adjudicative decisions are established; discusses ethical strategies for using physical evidence, people, records, and files in proof; compares investigation, auditing, and scientific method; and uses examples from criminal, civil, juvenile, and military justice system design and operation problems. Usually offered every spring.

73.390 Independent Reading Course in Justice (1-6)

73.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

73.401 Criminal Behavior: A Psychosocial Analysis (3) Examines various clinical and theoretical explanations for different types of criminal behavior including an analysis of the violent offender, the psychopathic offender, and the white-collar offender. Readings and other case-study material of actual criminal offenders are examined in order to develop an understanding of the causes and treatment. Usually offered every spring. *Note:* not open to students who have taken 73.503 Criminal Behavior: A Psychosocial Analysis.

73.402 Comparative Systems of Law and Justice (3) A cross-cultural analysis of the role of law. Exploration of the administration of law and justice in various societies, from least developed to most developed. Special emphasis on comparative analysis of criminal justice systems, including policing, courts, and correctional systems. Usually offered every term.

73.403 Concepts of Punishment (3) The philosophical issues associated with criminal punishment, particularly the moral justification for punishment. The relationship between theories of punishment and theories of the state, theories of ethics, and broader philosophical issues such as free will versus determinism. Usually offered alternate springs.

73.404 Gender and the Law (3) Gender and criminal, civil, and regulatory law. Criminal issues include sexual assault, prostitution, and the criminalization of pornography and sexual trafficking in women, and gender relations in the criminal justice system. Civil issues include marital and divorce laws and laws regarding reproduction. Other issues include sexual harassment and discrimination in housing, credit, insurance, employment, and education. Usually offered every fall.

73.412 Law and the Corporate World (3) An examination of the role of corporations in national and international economies and the legal constraints associated with this mode of business. Legal principles of corporate formation, financing, management and control. Analysis of the duty of care and the business judgement rule, along with the anti-fraud provisions of the federal securities laws. Usually offered every fall.

73.420 Legal Reasoning (3) Students absorb scholars' and judges' descriptions of analysis and decision in law; practice legal reasoning themselves through analysis of appellate decisions, statutes, and the U.S. Constitution; study procedural and organizational components of the American legal system; and choose an area in which to concentrate and synthesize their learning by developing reasoned arguments. Offered irregularly.

73.431 The Prison Community (3) Social organization in correctional institutions. Inquiry into the nature, organization, and aims of the penal system and its effect on groups it deals with. Interaction of groups within institutions. Usually offered every spring.

73.454 Violence in America (3) Emphasis on various ideologies and events that cause or reduce violence, such as social movements, depressions, war, and political repression. Offered irregularly.

73.458 The Juvenile and the Law (3) Special legal status of the juvenile. Protective services, incompetence to enter contracts, compulsory education, child labor laws, and *in loco parentis* actions by state and private institutions. Juvenile and family court movement, emphasizing noncriminal aspects of administering juvenile justice: guardianship, dependency, neglect, child support, paternity, and adoption. Usually offered every fall.

73.490 Independent Study Project in Justice (1-6)

73.491 Internship in a Justice Setting (1-6) Provides students with actual experience in the administration of justice through assignment to enforcement, judicial, or correctional agencies under joint supervision of agency officials and university instructors. Usually offered every term.

73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4) Classroom section of a double seminar. Each session covers a specific area in terms of theory and operational principles and explores the roles of all three branches of government in creating and operating justice systems in federations. Limited to Washington Justice Semester students. Usually offered every fall and spring.

73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4) Laboratory section of a double seminar. Field visits with discussions led by agency personnel regarding the intergovernmental roles of their agencies and their place in justice

systems. Theory and operational principles covered in 73.492. Limited to Washington Justice Semester students. Usually offered every fall and spring.

Graduate and Advanced Undergraduate Courses

73.501 The Concept of Justice (3) Major philosophical contributions to the definition of justice. The relationship of the ideal of justice to concrete situations in which issues of justice (civil, criminal, or political) arise. Offered irregularly.

73.502 The Concept of Law (3) Major philosophical approaches to problems of meaning, function, and necessity of law in society. The concept of law is examined in its relationship to values, custom, power, social change, and social theory. Offered irregularly.

73.504 Comparative Criminology and Criminal Justice (3) A comparative study of criminology and criminal justice systems as developed in the United States and elsewhere. Usually offered alternate springs.

73.513 Law and Economics (3) Examination of the uses and limits of economic reasoning in addressing problems in criminal and civil law. Issues include the effects of assigning liability, the relationship between equity and efficiency and how law creates incentives for certain types of behavior. Nuisance law, breach of contract and product liability are also discussed. Usually offered alternate springs. *Note:* not open to students who have taken 73.413 Law and Economics.

73.517 Victimology (3) Victims as an integral part of crime. Theories and research results on the victim role, criminal-victim relationships, concepts of responsibility, and society's reaction to victimization. Sexual assault, child abuse, and victimization of the elderly. Crisis-intervention centers, court-related victim/witness services, restitution, and compensation. Offered irregularly.

73.520 Insider's View of Justice (3) An in-depth study of the philosophy, organizational structure, and operation of the American justice system. The course employs direct observation through on-site visits and face-to-face discussions with justice practitioners in the Washington, D.C. metropolitan area. Usually offered every summer.

73.541 Law and Authoritarian Societies (3) The theory and practice of the police state in comparative perspective. Authoritarian and anti-democratic aspects of police and other criminal justice agencies. Other agencies of social control in both democratic and nondemocratic settings. Democratic controls and human rights. Offered alternate falls.

73.550 Drugs, Crime, and Public Policy (3) Review of the history of drug abuse in America; the relationship between drug abuse and crime, including marijuana, heroin, and alcohol; national strategies to deal with drug abuse; improvement of policies in the future. Usually offered every fall.

73.551 Comparative Justice Studies Abroad (3-6) On-site review of theories and practices of crime and criminal justice systems of other countries, including crime, justice, and heroin in England; juvenile justice in England and America; comparative corrections; and administration of justice in England, Sweden, Denmark, and the Netherlands. Usually offered every summer.

73.590 Independent Reading Course in Justice (1-6)

Graduate Courses

73.608 The Constitution and Criminal Procedure (3) Constitutional standards and operation of the criminal justice system. Police practices, bail, decision to prosecute, scope of prosecution, grand jury proceedings, preliminary hearings, right to counsel, right to speedy trial, plea bargaining, discovery and disclosure, jury trial, trial by newspaper, double jeopardy, and post-trial proceedings. Offered irregularly.

73.610 Survey in Justice and Public Policy (3) The American justice systems and the theories underlying them. Focus is on the criminal justice process and issues related to each step and institution in it. Topics include varieties of law and justice, issues dealing with the police, courts, and corrections. Usually offered every fall.

73.611 Survey in Law and Society (3) An examination of classical and contemporary theories on the relationship of law and society. Also, an analysis of national and international perspectives, contemporary social science research on pertinent issues such as access to justice, the legal profession, and the judicial process, are examined. Recent developments include feminist legal criticism and critical legal studies. Usually offered every spring.

73.613 Law and Anthropology (3) Law and legal systems in different cultures and societies, including various constructions of law and modes of norm enforcement. Analysis of law and custom in selecting traditional societies as seen by anthropologists, legal scholars, and social scientists. Perceptions of property, inheritance, contracts, torts, and criminal law. Usually offered alternate springs.

73.614 Law and the Behavioral Sciences (3) Historical and contemporary literature in law and the social sciences. Critical assessment of major research endeavors conducted by lawyers and social scientists, including such topics as plea bargaining, conflict resolution, the jury system, the legal profession, law and the mass media, and the function of law and public opinion in different societies. Offered irregularly.

73.615 Law and Human Rights (3) Examination of social structures and agencies protecting human rights: international law, the United Nations, and organs for enforcement of human rights laws, including the U.N. Commission on Human Rights, the World Court, and the European and Inter-American Commissions and Courts. Case studies of rights violations and attempts to apply international law. Usually offered alternate falls.

73.620 Crime, Conscience and Community (3) Examination of forces that shape criminal behavior and informal community responses to crime: biology, family, peers, neighbors, schools, media. How criminal justice system components use other public and private institutions to accomplish their goals and how scholarly disciplines deal with these factors. Usually offered every fall.

73.643 Advanced Seminar in Policing (3) An examination of major U.S. police and law enforcement systems and issues. The focus of the course may be either the role of police in society, police-community relations, and special problems in policing, or management and policy issues such as police organization, federalism, police effectiveness, police discretion and use of force, and police accountability. May be repeated for credit within the same term, topic must be different. Offered irregularly.

73.644 Law and Social Control (3) The role of law, including the use of legal institutions, processes, regulations and sanctions, in the service of social change and control in a democratic society. The

various avenues, both civil and criminal, available to and utilized by governmental authority to enforce social conformity or designate and regulate deviance. Usually offered alternate springs.

73.663 Advanced Seminar in Courts (3) Seminar on selected topics such as: Jurisprudence: sources of law; mental health and the law; law, science, and the courts; philosophy of law; intergovernmental relations; alternatives (civil and criminal). Sentencing: policy options, societal trends, technological implications. Management: strategic planning, management and evaluation, trial court performance standards, personnel issues, case flow strategies. Conflict resolution: comparative negotiation; arbitration and mediation systems; labor/management conflict resolution. May be repeated for credit within the same term, topic must be different. Offered irregularly.

73.680 Introduction to Justice Research I (3) The logic of scientific inquiry and the nature and process of social research as applied to justice. Theory, concepts, practices, and the demonstration of their reliability and validity. Attention is also given to methods of sampling design and techniques of data collection. Usually offered every fall.

73.681 Introduction to Justice Research II (3) Methods of data analysis applicable to research in the justice field. Building on the concepts presented in 73.680, the course examines the link between research design and empirical analysis, the role of probability in hypothesis testing, and the concept and techniques of descriptive and inferential statistics. Usually offered every spring. *Prerequisite:* 73.680.

73.686 Advanced Seminar in Corrections (3) Examination of the origin, nature, and operation of various correctional institutions and practices. The focus of the course varies by semester; topics include institutional corrections, community corrections, intermediate sanctions, legal aspects of corrections, the death penalty, and philosophical theories of punishment. May be repeated for credit within the same term; topic must be different. Offered irregularly.

73.687 Law, Deviance, and the Mental Health System (3) Examines the interprofessional relationship between law and the mental health systems, including areas of conflict and close working relationships. Areas covered include standards for involuntary hospitalization, the role of the insanity defense, psychiatric liability, and the rights of the mentally ill, including the right to treatment and the right to require treatment. Offered irregularly. *Note:* not open to students who have taken 73.521 Law and the Mental Health System.

73.690 Independent Study Project in Justice (1-6)

73.691 Internship in a Justice Setting (1-6) Provides students with experience in administering justice in operational or research settings through assignment to legislative, regulatory, planning, police, judicial, or correctional agencies under joint agency/school supervision that includes faculty evaluation of ongoing written reports. Usually offered every term.

73.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

73.710 Seminar in Justice, Law and Society (3) Analysis and critique of major theoretical approaches to the study of justice and the law. The interactions among the justice system, law, and society are investigated, including the conceptual underpinnings of the discipline, as well as an in-depth treatment of the field's empirical research. Usually offered every fall. *Prerequisite:* Admission to Ph.D. program or permission of the instructor.

English Language Institute

Note: The following courses (below the 200 level) do not carry academic credit towards graduation.

74.010 English Grammar I (0) A beginning course in English grammar intended for students with little or no prior exposure to English. Emphasis is on basic English sentence patterns. Offered irregularly. **No academic credit is received for this course.** *Prerequisite:* admission by ELI placement test.

74.012 Reading Skills I (0) A beginning course intended to develop the student's basic reading skills. Emphasis is on increasing the student's recognition vocabulary and the ability to understand basic and low-intermediate sentence patterns. Usually offered irregularly. **No academic credit is received for this course.** *Prerequisite:* admission by ELI placement test.

74.014 Writing Skills I (0) A beginning course intended to develop basic writing skills, including printing and handwriting when necessary, through tightly controlled exercises affording the student the opportunity to employ sentence patterns and vocabulary typically studied at beginning and high-beginning levels. Usually offered irregularly. **No academic credit is received for this course.** *Prerequisite:* admission by ELI placement test.

74.016 Listening and Speaking Skills I (0) A beginning course designed to help the student develop the ability to communicate effectively when required to express basic everyday wants and needs. Emphasis is on helping the student to understand English spoken at less than normal speed and to attain a minimally acceptable level of phonetic accuracy when speaking. Offered irregularly. **No academic credit is received for this course.** *Prerequisite:* admission by ELI placement test.

74.020 English Grammar II (0) A low intermediate course in English grammar intended for students with a basic command of English. Emphasis is on variations of basic sentence patterns. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.010.

74.022 Reading Skills II (0) A low intermediate course in basic reading skills in English as a second language; intended for students with a basic command of English. Emphasis is on understanding written English and on vocabulary development. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.012.

74.024 Writing Skills II (0) A low intermediate course in English as a second language. Emphasis is on developing basic mechanics and conventions of written English through controlled writing exercises and activities. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.014.

74.026 Listening and Speaking Skills II (0) A low intermediate course in English as a second language. Emphasis is on improving pronunciation, conversation ability and listening comprehension skills. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.016.

74.030 English Grammar III (0) An intermediate course in English as a second language. Emphasis is on mastering verb tenses and

structures of modification. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.020.

74.032 Reading Skills III (0) An intermediate course in English as a second language. Emphasis is on comprehension of main ideas and supporting details, organization of texts, and vocabulary expansion. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.022.

74.034 Writing Skills III (0) An intermediate course in English as a second language. Emphasis is on moving from controlled writing to accurate free writing of expanded sentence patterns. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.024.

74.036 Listening and Speaking Skills III (0) An intermediate course in English as a second language. Emphasis is on improving conversational listening and speaking skills. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.026.

74.037 Study Skills I (0) An intermediate-level course providing instructions and practice in a variety of essential language and study skills. Topics, which vary by section, include spelling, pronunciation, increasing reading speed, and orientation to American academic culture. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.038 Integrated Skills I (0) An intermediate-level course that provides students with an opportunity to develop their English proficiency by practicing their skills in the study of a particular content area. Topics, which vary by section, are related to current events, American culture, and comparative culture. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.040 English Grammar IV (0) A high intermediate course in English as a second language. Emphasis is on the complex grammatical structures characteristic of academic language. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.030.

74.042 Reading Skills IV (0) A high intermediate course in English as a second language. Emphasis is on increasing reading speed and comprehension and on word study. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.032.

74.044 Writing Skills IV (0) A high intermediate course in English as a second language. Emphasis is on mastery of paragraph development and proofreading. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.034.

74.046 Listening and Speaking Skills IV (0) A high intermediate course in English as a second language. Emphasis is on comprehension of academic discourse and extended oral production. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.036.

74.047 Study Skills II (0) A high intermediate course that provides instruction and practice in a variety of essential language and study skills. Topics, which vary by section and semester, include methods of increasing reading efficiency, library orientation, idioms, differing student-professor behavioral expectations, and strategies for vocabulary development. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.048 Integrated Skills II (0) A high intermediate course that provides students with an opportunity to develop their English proficiency by practicing their skills in the study of a particular content area. Topics, which vary by section, are related to current events, American culture, and comparative culture. May be repeated within the same term; topic may be the same. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.049 English for Specific Majors (0) Preparation for the reading and discussion skills critical for success in specific majors. Topics, which vary by section and semester, include vocabulary and basic concepts in computer science, business and economics, and international legal studies. May be repeated within the same term; topic may be the same. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.050 Reading and Text Analysis (0) An advanced course in English as a second language. Emphasis is on analytical reading and improving academic study skills. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.042.

74.051 Composition Skills and Grammar Review (0) An advanced course in English as a second language. Emphasis is on essay writing and error analysis. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.040 and 74.044.

74.080 English Workshop (0) Review course emphasizing fundamentals of grammar necessary for the improvement of writing skills. Does not fulfill the university English requirement. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by ELI recommendation only.

Graduate Courses

74.098 Graduate Writing Seminar (0) Restricted to graduate international students. Emphasis on library and research techniques and on writing a research paper. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or departmental recommendation.

University College Writing Requirement

Note: The following courses carry academic credit towards graduation as indicated.

74.200 College Reading and Writing I (3) An advanced course in reading and composition for international students whose competence in English qualifies them to take academic courses without special English. Emphasis is on academic reading and writing tasks, with attention to the residual language problems of nonnative speak-

ers. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.050 and 74.051 or 74.080. *Note:* Completion of 74.200 and 74.201 with grades of C or better fulfills the university College Writing and English Competency Requirement.

74.201 College Reading and Writing II (3) A continuation of 74.200; emphasis on library and research techniques, including the writing of a research paper. Usually offered every term. *Prerequisite:* 74.200. *Note:* Completion of 74.200 and 74.201 with grades of C or better fulfills the university College Writing and English Competency Requirement.

74.280 College Writing Skills Workshop (3) For advanced students of English as a second language. Emphasis is on writing summaries and syntheses of materials drawn from a wide range of subject areas. Usually offered every term. *Prerequisite:* permission of instructor.

74.290 Independent Reading (1-3)

Interdisciplinary Studies

Undergraduate Courses

75.490 Independent Study Project in Interdisciplinary Studies (1-6)

75.491 Internship (1-6) May be repeated for credit in the same term; topic may be the same.

Graduate and Advanced Undergraduate Courses

75.590 Independent Reading Course in Interdisciplinary Studies (1-6)

Graduate Courses

75.690 Independent Study Project in Interdisciplinary Studies (1-6)

75.691 Internship (1-6) May be repeated for credit in the same term; topic may be the same.

Women's and Gender Studies

Undergraduate Courses

76.125 Gender in Society 4:1 (3) This course focuses on the social construction of gender along with other forms of social inequality; representations of gender that permeate all forms of cultural experience; and theoretical arguments regarding key issues such as equality, ethics and politics, as well as debates at the frontier of gender theory. Usually offered every fall.

76.150 Women's Voices through Time 2:1 (3) The distinctive contributions of women to Western artistic and intellectual traditions. Significant articulations of human experience expressed by women through literature, art, and history; how such traditions became established and how women, despite obstacles, have produced lasting works of ideas and imagination. Usually offered every fall.

76.225 Gender, Politics, and Power 4:2 (3) This course explores the ways in which the social and cultural construction of sexual difference influences the nature and practice of political life in a variety of countries. It examines the ways in which power is gendered and studies how gender has served as a basis for political organization and a critique of public life. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 53.110 or 65.150 or 73.100 or 76.125.

76.300 Feminist and Gender Theory (3) Examines theories of gender as constructed or problematic, not natural or immutable. Surveys the historic development of theories of women's inequality and strategies for changes. Probes contemporary issues and conflicts within feminist and gender theory. Theorizes gender relations in students' own lives. Forges understandings across divisions of race, class, nationality, ability, sexualities, and sexual orientation. Usually offered every spring. *Prerequisite:* 76.250 or permission of director.

76.350 Interpreting Gender in Culture (3) An exploration of diverse aspects of gender experience from different disciplinary perspectives. Rotating topics focus on specific subjects, integrating recent scholarship and interdisciplinary contexts. Representative topics include Sisters and Brothers/Husbands and Wives, Women and the Performing Arts, and Women and Men in American Culture. May be repeated for credit, but not in the same term; topic must be different. Usually offered every term.

76.392 Cooperative Education Field Experience (3) See description under Cooperative Education in this publication. *Prerequisite:* 76.250

76.490 Independent Study Project in Women's and Gender Studies (1-6)

76.491 Internship in Women's and Gender Studies (1-6) *Prerequisite:* 76.250.

76.498 Senior Honors Project in Women's and Gender Studies (3) Usually offered every term. *Prerequisite:* 76.500.

76.500 Current Issues and Research in Women's and Gender Studies (3) Exploration of the philosophies, methods, and theories entailed in doing scholarly work in women's and gender studies. Close examination of selected current works in the discipline. Collaborative work developing bibliographies and designing course activities; individual work in the field. Usually offered every fall. *Prerequisite:* major or minor in women's and gender studies or permission of program director.

76.590 Independent Reading Course in Women's and Gender Studies (16)

76.600 Feminist and Gender Theory (3) Examines theories of gender as constructed or problematic, not natural or immutable. Surveys the historic development of theories of women's inequality and strategies for changes. Probes contemporary issues and conflicts within feminist and gender theory. Theorizes gender relations in students' own lives. Forges understandings across divisions of race, class, nationality, ability, sexualities, and sexual orientation. Usually offered every spring. *Prerequisite:* permission of instructor.

Study Abroad

Note: For more information consult the World Capitals Program Office at 202-895-4900.

92.300 Copenhagen Semester (1-3) In cooperation with the Denmark's International Study Program at the University of Copenhagen, students may take courses in liberal arts or international business. These courses, taught by European professors, are supplemented by extensive field trips. Usually offered every term.

93.495 Beijing Semester (1-6) Students have the opportunity to take specific courses at the University of International Business and Economics in Beijing, China. All participants must take intensive Chinese language (Mandarin). Courses include Chinese Economic Cooperation, Chinese History, Culture and Society, and an independent study project supervised by the resident professor. Usually offered every fall.

95.300 Semester in Paris (3-6) American University's program in Paris offers courses in French language and liberal arts. Students are placed in Parisian universities based on their language skills and areas of study. Usually offered every spring. *Prerequisite:* junior standing with at least a 3.0 grade point average; two years of college French or equivalent.

95.390 Study Abroad: Independent Reading (3-6) An opportunity to do an independent reading course under faculty supervision while attending a study abroad program. Usually offered every term. *Prerequisite:* Authorization of instructor and dean or department chair required.

95.391 Study Abroad: Internship (1-6) Students may enroll in the two-day-per-week internship for direct involvement in international organizations. Abroad placements include banks, multinational corporations, research institutes, media, and educational organizations. Placements are uniquely matched to complement the student's curriculum, major or minor program objectives, or serve as an elective. Usually offered every term.

95.490 Study Abroad: Independent Study (3-6) Usually offered every term.

95.690 Study Abroad Independent Study (1-6) May be repeated for credit within the same term; content/topic must be different. Usually offered every term. *Prerequisite:* authorization of the World Capitals Program director and the student's academic adviser.

95.691 Study Abroad: Internship (1-6) Offers direct involvement in international organizations. Placements include: multinational corporations, political or research institutions, media, and educational organizations. Placements are uniquely matched to complement the student's graduate curriculum. Students engage in activities such as observing the organizational structure, researching projects assigned to them, and gaining hands-on experience in terms of dealing with the professional world. Usually offered every term. *Prerequisite:* authorization of the World Capitals Program director and the students' academic adviser.

1996-1997 Full-Time Faculty

The date in parentheses following each name is the year in which the faculty member was appointed to the full-time faculty.

Aaronson, David E. (1970), B.A., M.A., Ph.D., The George Washington University; LL.B., Harvard University; LL.M., Georgetown University; Professor of Law.

Abrevanel, Evelyn G. (1977), B.A., J.D., Case Western Reserve University; Professor of Law.

Adair, Deborah (1994), B.S., Boston University; M.S., University of Arizona; Instructor of Business Administration.

Adamczeski, Madeline (1994), B.S., University of Long Island; Ph.D., University of California-Santa Cruz; Assistant Professor of Chemistry.

Adhikari, Ajay (1991), B.A., Delhi University; M.B.A., Ph.D., Virginia Commonwealth University; Assistant Professor of Accounting.

Ahrens, Anthony H. (1987), B.A., Northwestern University; Ph.D., Stanford University; Associate Professor of Psychology and Department Chair.

Alarcon, Diana (1996), M.A., Ph.D., University of California-Riverside; Assistant Professor of Economics.

Alexander, Kimberly (1996), B.A., M.A., Virginia Polytechnic Institute and State University; Ph.D., The American University; Assistant Professor of International Service.

Anderson, John B. (1997), A.B., University of Illinois; J.D., University of Illinois College of Law; LL.M., Harvard University; Visiting Professor of Law.

Anderson, Kenneth (1996), B.A., University of California-Los Angeles; J.D., Harvard University; Associate Professor of Law.

Anderson, Laird B. (1973), B.S., Florida State University; M.A., The American University; Professor Emeritus of Communication.

Anderson, Lisa (1995), B.S., M.A., Virginia Commonwealth University; M.A., Ph.D., University of Virginia; Assistant Professor of Economics.

Arnold, Steven H. (1970), B.A., Occidental College; M.A., Ph.D., The Johns Hopkins University; Associate Professor of Comparative and Regional Studies and Director of the International Development Division.

Ashkinaze, Carole (1996), B.A., St. Lawrence University; M.S., Columbia University; Assistant Professor of Communication.

Ata, Jorge (1996), B.A., M.A., M.A., George Mason University; Instructor of Language and Foreign Studies.

Aufferdeide, Patricia (1989), B.A., M.A., Ph.D., University of Minnesota; Associate Professor of Communication.

Auten, Janet G. (1996), B.A., University of Michigan; M.A., University of Missouri; M.A., Ph.D., Bowling Green State University; Instructor of Literature.

Ayittey, George (1990), B.Sc., University of Ghana; M.A., University of Western Ontario; Ph.D., University of Manitoba; Associate Professor of Economics.

Bagranoff, Nancy A. (1987), A.A., Briarcliff College; B.S., The Ohio State University; M.S., Syracuse University; D.B.A., The George Washington University; C.P.A.; Associate Professor of Accounting and Department Chair.

Bailey, Jessica M. (1981), B.S., M.Ed., Coppin State College; M.B.A., Ph.D., University of Missouri; Assistant Professor of International Business.

Bailey, Margo (1996), B.A., University of Pennsylvania; M.A., Ph.D., Syracuse University; Assistant Professor of Public Administration.

Bair Van Dam, Cynthia (1995), B.A., The University of Nebraska; M.A., The American University; Instructor of Literature.

Baker, H. Kent (1975), B.S., Georgetown University; M.B.A., D.B.A., M.Ed., University of Maryland; M.A., M.S., Ph.D., Ph.D., The American University; C.F.A., C.M.A.; University Professor of Finance.

Baker, Isaiah (1979), B.A., Yale University; M.B.A., J.D., Columbia University; M.A., DePaul University; LL.M., Harvard University; Associate Professor of Law.

Baker, Jeffrey J. (1996), B.S., Bridgewater State University; M.A., San Diego State University; M.S., Boston University; Assistant Professor of Communication.

Baker, Kenneth (1966), B.A., M.A., University of Kansas; Associate Professor Emeritus of Performing Arts.

Banta, William C. (1970), B.A., University of California-Berkeley; Ph.D., University of Southern California; Professor of Biology.

Baranovic, Boris I. (1966), B.A., Amherst College; M.F.A., Yale University; Associate Professor Emeritus of Performing Arts.

Barlow, Judith (1994), B.S., Metropolitan State College; M.S., Colorado School of Mines; Ph.D., University of Colorado; Assistant Professor of Computer Science and Information Systems.

Baron, Naomi Susan (1987), B.A., Brandeis University; Ph.D., Stanford University; Professor of Language and Foreign Studies and Department Chair.

Barrett, Laurence I. (1995), B.A., New York University; M.S., Columbia University; Assistant Professor of Communication.

Barron, Austin M. (1971), B.S., City College of New York; M.S., Ph.D., Purdue University; Associate Professor of Mathematics and Statistics.

Bartfield, Charles I. (1966), M.B.A., Ph.D., Columbia University; Professor Emeritus of Business Administration.

Bassler, Richard A. (1969), B.S., University of Colorado; M.S., The George Washington University; Ph.D., Laurence University; Professor Emeritus of Computer Science and Information Systems.

Batchelder, Merritt C. (1935), B.A., Hillsdale College; M.A., Columbia University; Ph.D., Iowa State University; Professor Emeritus of Literature.

- Bauman, Kurt J.** (1996), B.A., University of Wisconsin; M.A., Tufts University; Ph.D., University of Wisconsin; Assistant Professor of Sociology.
- Baumgartner, Lisa** (1996), B.A., Gustavus Adolphus College; M.A., Ph.D., University of Minnesota; Assistant Professor of Communication.
- Bean, Arthur P.** (1963), B.A., M.A., University of Virginia; M.S., The Catholic University of America; Associate Professor Emeritus of Literature.
- Beaufort, Anne** (1995), B.A., Wheaton College; M.A., Purdue University; Ph.D., Stanford University; Assistant Professor of Literature.
- Becker, Shirley** (1989), B.S., M.B.A., St. Cloud State University; M.S., Ph.D., University of Maryland; Associate Professor of Computer Science and Information Systems.
- Beisner, Robert L.** (1965), M.A., Ph.D., University of Chicago; Professor of History and Director of the General Education Program.
- Bell, Dan** (1996), B.A., Earlham College; M.A., University of Colorado-Boulder; Instructor of Mathematics and Statistics.
- Benjamin, John D.** (1990), B.A., University of North Carolina; M.S., University of Houston; Ph.D., Louisiana State University; Associate Professor of Finance.
- Bennett, Betty T.** (1985), B.A., Brooklyn College; M.A., Ph.D., New York University; Professor of Literature and Dean of the College of Arts and Sciences.
- Bennett, Richard R.** (1979), B.A., Randolph-Macon College; M.A., Florida State University; Ph.D., Washington State College; Professor of Justice and Department Chair.
- Bennett, Susan** (1984), B.A., M.A., Yale University; J.D., Columbia University; Professor of Law.
- Berendzen, Richard** (1974), B.S., Massachusetts Institute of Technology; M.A., Ph.D., Harvard University; Professor of Physics.
- Bergin, Thomas J.** (1982), B.A., University of Maryland; M.A., Ph.D., The American University; Professor of Computer Science and Information Systems.
- Bergmann, Barbara R.** (1988), B.A., Cornell University; M.A., Ph.D., Harvard University; Distinguished Professor of Economics.
- Betancourt, Luis** (1995), B.A., Salisbury State University; M.B.A., University of Maryland; Ph.D., University of Central Florida; Assistant Professor of Accounting.
- Betts, Madeleine** (1969), B.A., M.A., Université d'Ottawa; Ph.D., University of Illinois; Associate Professor Emerita of Language and Foreign Studies.
- Bird, Barbara J.** (1991), B.A., California State University; M.A., University of Western Ontario; Ph.D., University of Southern California; Associate Professor of Business Administration.
- Bittner, Vanessa L.** (1996), B.A., The George Washington University; M.A., University of Wisconsin; Instructor of Language and Foreign Studies.
- Blair, Randall** (1995), B.A., Dartmouth College; M.A., The American University; Assistant Professor of Communication.
- Blecker, Robert Allen** (1985), B.A., Yale University; M.A., Ph.D., Stanford University; Associate Professor of Economics.
- Bliss, Edward Lydston** (1968), B.A., Yale University; Professor Emeritus of Communication.
- Blum, Joseph** (1965), B.S., City College of New York; A.M., Ph.D., The George Washington University; Professor Emeritus of Mathematics and Statistics.
- Bodine, John J.** (1968), B.A., University of Oklahoma; Ph.D., M.A., Tulane University; B.A., University of Oklahoma; Professor Emeritus of Anthropology.
- Boiney, John A.** (1994), A.B., Dartmouth College; M.A., Ph.D., Duke University; Assistant Professor of Government.
- Bonafede, Dom** (1985), B.Litt., Rutgers State University; Associate Professor of Communication.
- Borkovec, Vera** (1966), Undergraduate, Charles University, Prague; M.A., Hollins College; M.A., The American University; Ph.D., Georgetown University; Associate Professor Emerita of Language and Foreign Studies.
- Bornstein, Anthony** (1995), B.A., Indiana University; J.D., The American University; Visiting Assistant Professor of Law.
- Bowles, W. Donald** (1957), B.A., University of Washington; M.A., Ph.D., Columbia University; Professor Emeritus of Economics.
- Boyle, James D.** (1982), LL.B., Glasgow University; LL.M., S.J.D., Harvard University; Professor of Law.
- Boynton, Robert P.** (1969), A.B., Calvin College; A.M., Ph.D., University of Michigan; Professor Emeritus of Public Administration.
- Brabanski, Lothar** (1957), M.F.A., Berlin Academy of Fine Arts; Associate Professor Emeritus of Art.
- Bradlow, Daniel David** (1989), B.A., University of Witwatersrand; J.D., Northeastern University; M.L.I.C., Georgetown University; Professor of Law and Director of International Legal Studies.
- Brandman, Shirley** (1994), B.A., J.D., Yale University; Visiting Assistant Professor of Law.
- Brautigam, Deborah** (1994), B.A., Ohio Wesleyan University; M.A., Ph.D., Tufts University; Associate Professor of International Development.
- Breitman, Richard D.** (1976), B.A., Yale College; M.A., Ph.D., Harvard University; Professor of History and Department Chair.
- Brenner, Donald R.** (1971), B.S., J.D., The Ohio State University; Professor of Accounting.
- Brenner, Philip J.** (1981), B.A., Columbia University; M.A., Ph.D., The Johns Hopkins University; Professor of International Politics and Foreign Policy.
- Breyere, Edward J.** (1961), B.S., M.S., Ph.D., University of Maryland; Professor Emeritus of Biology.
- Broad, Robin** (1990), B.A., Williams College; Ph.D., Princeton University; Associate Professor of Comparative and Regional Studies.
- Broder, Ivy E.** (1975), B.A., Hunter College; M.A., Ph.D., State University of New York-Stony Brook; Professor of Economics and Dean of Academic Affairs.
- Broude, Norma** (1975), A.B., Hunter College; M.A., Ph.D., Columbia University; Professor of Art.
- Brown, Roger H.** (1965), B.A., M.A., Ph.D., Harvard University; Professor of History.

- Bulmash, Gary F.** (1975), B.A., M.B.A., D.B.A., University of Maryland; C.P.A.; Associate Professor of Accounting.
- Burkart, Edward I.** (1962), B.S., M.S., Georgetown University; Ph.D., University of Pennsylvania; Professor Emeritus of Language and Foreign Studies.
- Burkart, Grace Stovall** (1960), A.B., Cornell University; M.A., The American University; Ph.D., Georgetown University; Professor Emerita of Language and Foreign Studies.
- Burke Jr., D. Barlow** (1970), A.B., Harvard University; LL.B., M.C.P., University of Pennsylvania; LL.M., S.J.D., Yale University; Professor of Law.
- Burkhart, Geoffrey** (1968), B.A., Oakland University; Ph.D., University of Rochester; Associate Professor of Anthropology.
- Butts, James R.** (1964), B.S., Virginia Polytechnic Institute and State University; M.S., New York University; Associate Professor of Marketing.
- Caballero, Maria** (1996), B.A., Hunter College; M.A., Ph.D., City University of New York; Assistant Professor of International Service.
- Callen, Earl R.** (1968), A.B., M.A., University of Pennsylvania; Ph.D., Massachusetts Institute of Technology; Professor Emeritus of Physics.
- Cannon, Thomas F.** (1972), A.B., A.M., Boston College; Ph.D., University of Virginia; Assistant Professor of Literature.
- Carmel, Erran** (1991), B.A., University of California-Berkeley; M.B.A., University of California-Los Angeles; Ph.D., University of Arizona; Assistant Professor of Business Administration.
- Carson, Frederick W.** (1970), B.S., Massachusetts Institute of Technology; M.A., Washington University; Ph.D., University of Chicago; Associate Professor of Chemistry.
- Carter, Michele** (1994), B.A., Georgia State University; M.A., Ph.D., Vanderbilt University; Assistant Professor of Psychology.
- Casey, Stephen D.** (1988), B.A., Drew University; Ph.D., University of Maryland; Associate Professor of Mathematics and Statistics.
- Chandler, Karen** (1994), B.A., Hampton Institute; M.A., Columbia University; Assistant Professor of Performing Arts.
- Chang, I-Lok** (1970), B.S., California Institute of Technology; Ph.D., Cornell University; Associate Professor of Mathematics and Statistics.
- Charbonneaux, Marie A.** (1960), B.A., M.A., University of Paris; , Etudes Pratiques d'Anglais, Sorbonne; Associate Professor Emerita of Language and Foreign Studies.
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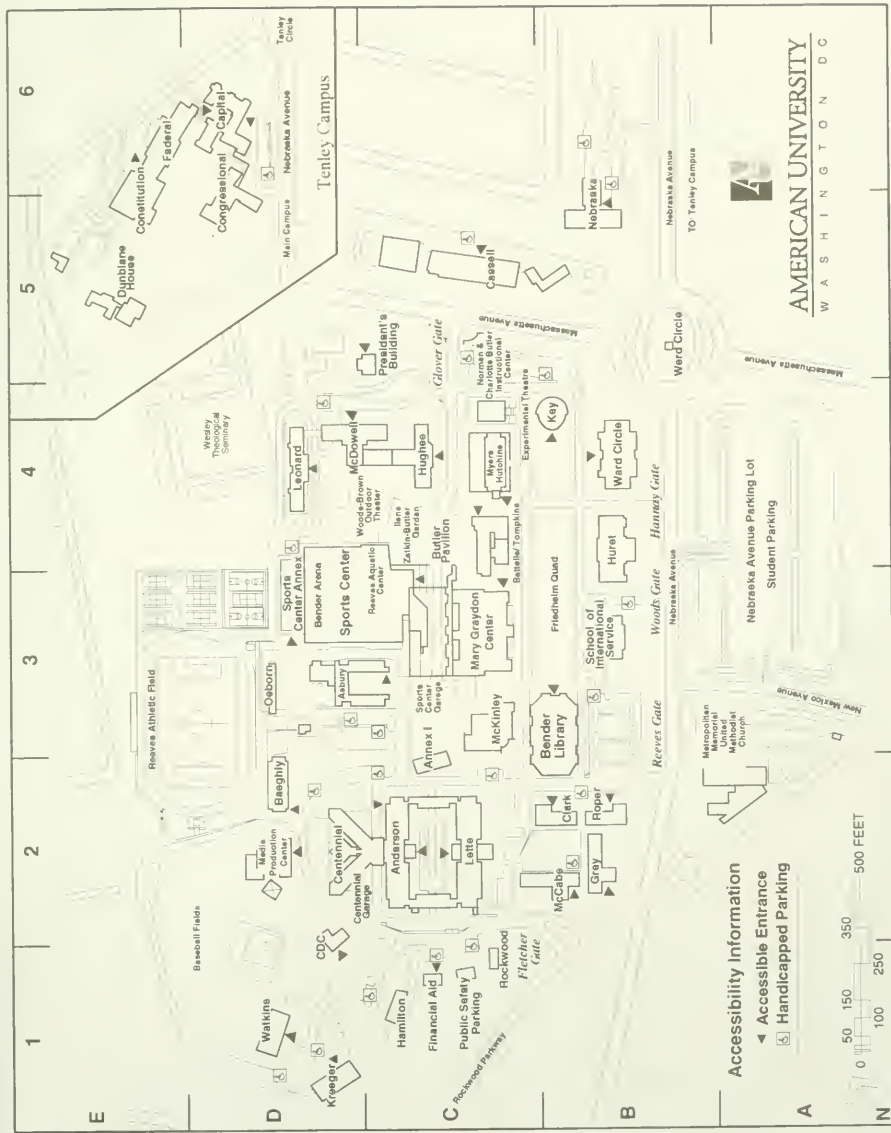
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